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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:31:34 ; Search time 523.667 Seconds
(without alignments)
1500.527 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 gctctgttgatattgaaagcaagtg 27

Scoring table: IDENTITY_NUC
Gapo: 10.0 , Gapext 1.0

Searched: 2054540 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rod:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	100.0	27	6	AX268379
2	27	100.0	155	9	HSU93598
3	27	100.0	455	9	AF254358
4	27	100.0	710	9	AF027824
5	27	100.0	1992	9	AF261715
6	27	100.0	2061	6	AX403107
7	27	100.0	2253	6	AX467227
8	27	100.0	2253	9	AY101595
9	27	100.0	2472	9	BC025672
10	27	100.0	2518	9	AF176574
11	27	100.0	2558	6	AX376036
12	27	100.0	2653	6	AX337498
13	27	100.0	2653	6	I23794
14	27	100.0	2653	9	HUMPSM
15	27	100.0	93525	9	AF007544
16	27	100.0	137888	9	AP003122
17	27	100.0	156255	2	AP002369
18	27	100.0	157527	9	AC117746
19	27	100.0	158524	12	AL162372
20	27	100.0	187638	2	AC118273
21	27	100.0	192648	2	AC024234
22	27	100.0	246865	2	AC074003
23	25.4	94.1	2532	4	AF050502
24	25.4	94.1	91667	2	AP005435
25	25.4	94.1	120000	9	AP004607
26	25.4	94.1	166287	2	AC060830
27	22.2	82.2	170102	9	AC009237
28	21.2	78.5	188798	2	AC093966
29	20.8	77.0	59909	2	AC090996
30	20.8	77.0	128148	9	AC093721
31	20.6	76.3	21877	3	DVU95037
32	20.6	76.3	82279	2	AC010464
33	20.6	76.3	128963	9	AC026745
34	20.6	76.3	152258	2	AC116838
35	20.6	76.3	171727	2	AC117809
36	20.6	76.3	175671	2	AC10274
37	20.6	76.3	202215	2	AC129327
38	20.6	76.3	214139	12	AC022129
39	20.2	74.8	18954	2	AC013871
40	20.2	74.8	129338	9	AC016597
41	20.2	74.8	188973	2	AC023695
42	20.2	74.8	319551	3	AE003432
43	19.8	73.3	11018	1	AE002395
44	19.8	73.3	38700	3	CET09A5
45	19.8	73.3	169830	2	AC013345

ALIGNMENTS

RESULT 1
AX268379
LOCUS AX268379 27 bp DNA
DEFINITION Sequence 17 from Patent WO0174845.
ACCESSION AX268379
VERSION AX268379.1 GI:16541586
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

1
Pedyczak, A., Chong, P. and Sia, C.D.
Immunogenic peptides derived from prostate-specific membrane
antigen (psma) and uses thereof
Patent: WO 0174845-A 17 11-OCT-2001;

FEATURES Aventis Pasteur Limited (CA)
Location/Qualifiers
1. 27
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="CLP337"
BASE COUNT 8 a 3 c 7 g 9 t
ORIGIN

Query Match 100.0%; Score 27; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
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Db 1 GCTCTGTTGATATGAAAGCAAGTG 27

RESULT 2
LOCUS HSU93598 155 bp DNA linear PRI 05-JUL-2001
DEFINITION Homo sapiens PSM pseudogene, partial sequence.
ACCESSION U93598
VERSION U93598.1 GI:2585989
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 155)
Maraj,B.H., Leek,J.P., Karayi,M., Ali,M., Lench,N.J. and Markham,A.F.

TITLE Detailed genetic mapping around a putative prostate-specific
JOURNAL membrane antigen locus on human chromosome 11p11.2
MEDLINE Cyto genet. Cell Genet. 81 (1), 3-9 (1998)
PUBMED 98358137
9691167

REFERENCE 2 (bases 1 to 155)
AUTHORS Maraj,B.H., Bailey,A., Carr,I.M. and Markham,A.F.
TITLE Direct Submission
JOURNAL Submitted (11-MAR-1997) Molecular Medicine Unit, Leeds University,
Beckett Street, Leeds, West Yorkshire LS9 7TF, England
3 (bases 1 to 155)
Maraj,B.H., Bailey,A., Carr,I.M. and Markham,A.F.

REFERENCE Direct Submission
AUTHORS Submitted (05-NOV-1997) Molecular Medicine, Leeds University,
TITLE Beckett Street, Leeds, West Yorkshire LS9 7TF, England
JOURNAL Sequence update by submitter
REMARK On Nov 5, 1997 this sequence version replaced gi:1928992.
COMMENT
FEATURES
Source location/Qualifiers
1. 155
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="11"
/map="11q14"
<1. .>155
/gene="PSM"
<1. .>155
/gene="PSM"
/pseudo
/codon_start=1

BASE COUNT 41 a 29 c 46 g 39 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 37 GCTCTGTTGATATGAAAGCAAGTG 63

RESULT 3
LOCUS AF254358 455 bp mRNA linear PRI 22-MAY-2000
DEFINITION Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 18
ACCESSION AF254358
VERSION AF254358.1 GI:7963796
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 455)
Bzdega,T., Turi,T., Wroblewska,B., She,D., Chung,H.S., Kim,H. and Neale,J.H..
Molecular cloning of a peptidase against N-acetylasparylglutamate from a rat hippocampal cDNA library
J. Neurochem. 69 (6), 2270-2277 (1997)
98041505
9375657

REFERENCE 2 (bases 1 to 455)
AUTHORS Lupold,S.E., Criley,S.C. and Coffey,D.S.
TITLE Alternative splicing of the Prostate-Specific Membrane Antigen
JOURNAL Unpublished
3 (bases 1 to 455)
Lupold,S.E. and Coffey,D.S.
TITLE Direct Submission
JOURNAL Submitted (07-APR-2000) Urology, Johns Hopkins School of Medicine,
Marburg 113, 600 N Wolfe St, Baltimore, MD 21287-2101, USA

FEATURES
Source location/Qualifiers
1. 455
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="11"
/map="11p11-p12"
/cell_line="LNCap"
<1. .333
/note="glutamate carboxypeptidase II; folate hydrolase;
exon 18 alternative splice variant"
/codon_start=1
/product="prostate-specific membrane antigen PSM"
/protein_id="AAF71358.1"
/db_xref="GI:7963797"
/translation="ELANSIVLPFDCRDYAVVLRKYADKIYSIMKHPQEMKTVSVF
DSLFSVAVKNFTIEIAKSFSERLQDFKSMSSMLQAAATTSMGSHSQEFMMLCLILKAK
TLRPGEK"

CDS

BASE COUNT 140 a 82 c 103 g 130 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 455;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 279 GCTCTGTTGATATGAAAGCAAGTG 305

RESULT 4
LOCUS AF027824 710 bp mRNA linear PRI 02-AUG-1999
DEFINITION Homo sapiens prostate-specific membrane protein 1 (FOLH1)
ACCESSION AF027824
VERSION AF027824.1 GI:5669560
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 710)
Maraj,B.M., Mcadam,R.A.A., Markham,A.F. and Giullou,P.J.
TITLE Direct Submission

JOURNAL Submitted (02-OCT-1997) Molecular Medicine Unit, Leeds University, Beckett, Leeds, Yorkshire LS7 9TF, UK

FEATURES

Source

1. 710

/organism="Homo sapiens"

/db_xref="taxon:9606"

/tissue_type="colon adenocarcinoma"

/note="derived by RT-PCR"

<1. >710

/gene="FOLH1"

/note="prostate-specific membrane protein 1; PSM1"

/pseudo

BASE COUNT 218 a 135 c 162 g 195 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 710;

Best Local Similarity 100.0%; Pred. No. 1.4;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27

|||||

Db 591 GCTCTGTTGATATGAAGCAAGTG 617

RESULT 5

AF261715 1992 bp mRNA linear PRI 02-NOV-2000

LOCUS Homo sapiens prostate-specific membrane antigen-like protein

DEFINITION (PSMAL/GCP III) mRNA, complete cds.

ACCESSION AF261715

VERSION AF261715.1 GI:11078563

KEYWORDS

SOURCE Homo sapiens.

ORGANISM Homo sapiens

REFERENCE

AUTHORS O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.

TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

JOURNAL

2 (bases: 1 to 1992)

O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.

Expression Profile of Prostate-Specific Membrane Antigen (PSMA) versus a Prostate-Specific Membrane Antigen-Like Gene in Normal Tissues, Prostate Cancer and Tumor Associated-Vasculature

Unpublished

3 (bases: 1 to 1992)

O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.

Direct Submission

Submitted (27-APR-2000) Cancer Biology, Cleveland Clinic Foundation, NB 40, 9500 Euclid Avenue, Cleveland, OH 44195, USA

FEATURES

Source

1. 1992

/organism="Homo sapiens"

/db_xref="taxon:9606"

/chromosome="11"

/map="11q14.3"

/tissue_type="liver"

/note="maps to Schizophrenia Disorder Type II, locus"

1. 1992

/gene="PSMAL/GCP III"

527. 1855

/gene="PSMAL/GCP III"

/function="N-acetylated-alpha-linked-acidic dipeptidase"

/note="glutamate carboxypeptidase III; similar to Homo sapiens PSMA; folate hydrolase-like; member of the M28 peptidase family; formed by duplication of the PSMA gene"

/codon_start=1

/product="prostate-specific membrane antigen-like protein"

/protein_id="AAG29102.1"

/db_xref="GI:11078564"

CDS

/translation="MGSGAPDDSSWRGSLKVSYNVGPFGTGNFSTOKVMHIHSTNEV
TRIVNVIGTLKGAVEPDRVILGHRDSWVFGIDPQGAADVHEIVASFGLTKKEGW
RPRRTILFASMDAEEFGLLGSTEWAEEDNSRLQERGVAYINADSSIEGNVTLRVDC
LMYSLVNLTRELKSPDEGFEGSKSLYESWTKSPSPFSGMPRIKSLGSGNDEFEVFO
RLGIASGRARATKKNWETNKFSGYPLHSVETTELVEKFYDPMFKHLTVAGVRGMV
FELANSIVLPDCRDYAVLRKYADKIYNISMKHPQEMKTYLSLSPSLFSAVKNETEI
ASKFSERLQDFDKSNPILLRMNDQMLELAFIDPLGLPDRPFYRHVYIYAPSSHNKY
AGESFPGIYDALFDIESKVDPSKAWGDVVKROISVAAFTVQAAETLSEVA"

BASE COUNT 638 a 352 c 451 g 551 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 1992;

Best Local Similarity 100.0%; Pred. No. 1.2;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27

|||||

Db 1733 GCTCTGTTGATATGAAGCAAGTG 1759

RESULT 6

AX403107 2061 bp DNA linear PAT 07-JUN-2002

LOCUS Sequence 2 from Patent WO0226984.

DEFINITION AX403107

ACCESSION AX403107

VERSION AX403107.1 GI:21388049

KEYWORDS

SOURCE human.

ORGANISM Homo sapiens

REFERENCE

AUTHORS Betty,M., An,W., Ling,H.P. and Rhodes,K.

TITLE Potassium channel interactors and uses therefor

JOURNAL Patent: WO 0226984-A 2 04-APR-2002;

FEATURES

Source

1. 2061

/organism="Homo sapiens"

/db_xref="taxon:9606"

BASE COUNT 630 a 391 c 468 g 572 t

ORIGIN

Query Match 100.0%; Score 27; DB 6; Length 2061;

Best Local Similarity 100.0%; Pred. No. 1.2;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27

|||||

Db 1942 GCTCTGTTGATATGAAGCAAGTG 1968

RESULT 7

AX467227 2253 bp DNA linear PAT 16-JUL-2002

LOCUS Sequence 1 from Patent WO0234287.

DEFINITION AX467227

ACCESSION AX467227

VERSION AX467227.1 GI:21900509

KEYWORDS

SOURCE human.

ORGANISM Homo sapiens

REFERENCE

AUTHORS Beier,A.M., Gautam,A. and Mouritsen,S.R.

TITLE Novel therapeutic vaccine formulations

JOURNAL Patent: WO 0234287-A 1 02-MAY-2002;

FEATURES

Source

1. 2253

/organism="Homo sapiens"

/db_xref="taxon:9606"

1. 2253

CDS

Query Match	100.0%;	Score 27;	DB 6;	Length 2253;
Best Local Similarity	100.0%;	Pred. No. 1.2;		
Matches 27;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Oy	1	GCTCTGTTGATATATGAAGCAAGTG	27	
Db	2131	GCTCTGTTGATATATGAAGCAAGTG	2157	
RESULT 8				
AY101595				
LOCUS	AY101595	2253 bp	mRNA	linear
DEFINITION	Homo sapiens prostate-specific membrane antigen mRNA, complete cds.			
ACCESSION	AY101595			
VERSION	AY101595.1	GI:21217742		
KEYWORDS				
SOURCE	Homo sapiens.			
ORGANISM	Homo sapiens.			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS	1 (bases 1 to 2253)			
TITLE	Ye, C.Z., Zhang, F.L., Zhang, Y.K. and Chen, C.Q.			
JOURNAL	Cloning and sequencing of Chinese prostate-specific membrane antigen			
REFERENCE	Mianyixue Zazhi 17 (5), 328-330 (2001)			
AUTHORS	2 (bases 1 to 2253)			
TITLE	Ye, C.Z.			
JOURNAL	Direct Submission			
REFERENCE	Submitted (06-MAY-2002) Department of Urology, Zhongshan Hospital, Medical Center of Fudan University, Fenglin Rd 180, Shanghai 200032, China			
FEATURES				
source	Location/Qualifiers			
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	/sex="male"			
	/tissue_type="prostate carcinoma"			
	/country="China"			
	1..2253			
	/codon_start=1			
	/product="prostate-specific membrane antigen"			
	/protein_id="AAM34479.1"			
	/db_xref="GI:21217743"			
	/translation="MMNLLHETDSAVATARRPRWLCAAGLVLAGGFFLLGFLRGWEIKSSNEATNITPKHNMKAFLEDELKAENIKFLYNFTQIPLHLAGTEQNOLAKOIOSQWKEGLDSVELAHYDVLISYPNKTHPNYSIINEDNEIFNTSLFEPPIGVENYSDIVPFSFSPQGMPEGLVYVNYARTEDFKLERDMKINCSGKIVARIYKGVFRGNKVKNAQLAGAKGVILSDPADYFAPGVKSPDGWNLPGGVQRGNILNLNAGADPLTPGPANELAYRRGIAEAVGLPSIPVHPIGYDAOKLLEKMGSA PDDSSWRGSLKVPYNVGPGFTGNSTOKVKMHIHSTNEVTRIRYNVIGTLRGAVEPDRVILIGHRDSWVFGIDPQSGAAVVEIVRSFGTLKKEGWRPRRTILFASWDAEEFGILGSTEWAENSRLLOERGVAIINADSSIEGNYTLRVDCPTPLMYSLVHNLTLEKSPDEGEKSLYESWTKSPSPFSGMPRISKLGSGNDFEVEFORLGIASGRARYTKNETNKFSGYPLHSHVETYELEKFFYDPMFKYHLTVAAQVRGMAVEELANSIVLPEDCRDVAVYLKRYADKIYISIMKHPOEMKTVSFSFDSLFSAVKNTETIASKFSERLODFKSNPVLRLMNDQIMFLERAFIDPLGIPDRPFYRHVIVAPSSHNKYAGESFPGIYDALFDLESKVDPSKAMGEVKKQIYVAAFTVQAAAEITLSEVA"			
	4..6			
	/note="ggt or tgg encoding Gly and Trp, respectively"			
	58..2253			
	/note="Human PSM'"			
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BASE COUNT	670 a 448 c 527 g 608 t			
ORIGIN				

BASE COUNT	670 a	449 c	527 g	607 t
ORIGIN				
Query Match	100.0%;	Score 27;	DB 9;	Length 2253;
Best Local Similarity	100.0%;	Pred. No. 1.2;		
Matches 27;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GCTCTGTTTGATATTGAAAGCAAGTG	27	
Db	2131	GCTCTGTTTGATATTGAAAGCAAGTG	2157	
RESULT 9				
LOCUS	BC025672	2472 bp	mRNA	linear PRI 11-MAR-2002
DEFINITION	Homo sapiens, similar to folate hydrolase (prostate-specific membrane antigen) 1, clone MGC:34488 IMAGE:5202715, mRNA, complete cds.			
ACCESSION	BC025672			
VERSION	BC025672.1	GI:19343603		
KEYWORDS	MGC.			
SOURCE	Homo sapiens.			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS	1 (bases 1 to 2472)			
TITLE	Strausberg, R.			
JOURNAL	Direct Submission			
REMARK	Submitted (06-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA			
COMMENT	NIH-MGC Project URL: http://mgc.nci.nih.gov Contact: MGC help desk Email: cgabs-remail.nih.gov Tissue Procurement: Life Technologies, Inc. CDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC), Gaithersburg, Maryland; Web site: http://www.nisc.nih.gov/nisc_mgc@hgrl.nih.gov Contact: nisc_mgc@hgrl.nih.gov Shevchenko, Y., Wetherby, K.D., Beckstrom-Sternberg, S.M., Benjamin, B., Blakesley, R.W., Bouffard, G.G., Brinkley, C., Brooks, S., Dietrich, N.L., Guan, X., Gupta, J., Ho, S.-L., Karlins, E., Legaspi, R., Lim, M., Maduro, Q.L., Masiello, C., Mastrian, S.D., McCloskey, J.C., McDowell, J., Pearson, R., Snyder, B., Stantirip, S., Thomas, P.J., Tjongson, E.E., Touchman, J.W., Tsurgeon, C., Vogt, J.L., Walker, M.A., Zhang, L.-H. and Green, E.D.			
FEATURES	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 49 Row: e Column: 5 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 4758397. Location/Qualifiers 1..2472 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="MGC:34488 IMAGE:5202715" /tissue_type="Lung, spleen, fetal, pooled" /clone_lib="NIH_MGC_122"			
SOURCE				

CDS

/lab_host="DH10B"
/note="Vector: pCMV-Sport6"
160. .2319
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/product="Similar to folate hydrolase (prostate-specific
membrane antigen) 1"
/protein_id="AAH25672.1"
/db_xref="GI:19343604"
/translation="MNLLHETDSAVALARRRRLCAGALVLAGFFLLGLFGWFIK
SSNEATNITPKHNMKAFLDLKAENKFLYNFTQIPLAGTEQNFOLAKQIOSQWKE
EGLDSVELAHYDVLISYPNKTHPNYSIINEDGNEIFNTSLFEPPIPGYENVS
DIYVP FSAFSPQGMPEGDLVYVNYARTEDFFLKERDMKINCSGIVIARYGKVRGNKVKNAQ
LAGAKGVLISDPADYFAPGVKSPDGMNLPGGVQRGNILNLNGADPLTPGYPANE
YARRGIAEAVGLPSIPVHPIGYDAQKLEKMGGSAPDSSWRGSLKVPYNVGPFT
GNFSTQKVKMHIHSTNEVTRIVNIGTLRGAVEPDRYVILGHRDSWVFGIDPQSGA
AVVHEIVRSFGLTKEGWRPRRTILFASWDAEFGLLGSTWAEENSRLQERGVAI
NADSSIEGNTLRYDCTPLMYSLVHNLTKELKSPDEGEFGKSLYESWTKSPSEFSG
MPRISKLGSGNDEFEVFFQRLGIASGRARYTKMWTNKFSGYPLHVSYTEYELVEKY
DPMFKYHLTVAQVRGGMVFEELANSIVLPDCRDYAVVLARKYADKIYISMKHPQEMKT
YSVSFDSLFSAVKNFTEIASKFSERLODFDKSKHVIYAPSSHNKYAGESFPGIYDALF
DIESKVDPSKAWGEVKKQIYVAAFTVQAAAEITLSEVA"

BASE COUNT 746 a 483 c 594 g 649 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 2472;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
|||||
Db 2197 GCTCTGTTGATATTGAAAGCAAGTG 2223

RESULT 10
AF176574 2518 bp mRNA linear PRI 28-NOV-2000
LOCUS
DEFINITION Homo sapiens folylpoly-gamma-glutamate carboxypeptidase (FGCP)
ACCESSION AF176574
VERSION AF176574.1 GI:5762481
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Devlin,A.M., Ling,E.H., Pearson,J.M., Fernando,S., Clarke,R.,
Smith,A.D. and Halsted,C.H.
TITLE Glutamate carboxypeptidase II: a polymorphism associated with lower
levels of serum folate and hyperhomocysteinemia
Hum. Mol. Genet. 9 (19), 2837-2844 (2000)
JOURNAL
MEDLINE 20545101
PUBMED 11092755
REFERENCE
AUTHORS Devlin,A.M., Ling,E.-H. and Halsted,C.H.
TITLE Direct Submission
JOURNAL Submitted (09-AUG-1999) Internal Medicine, University of
California, Davis, TB 156, Davis, CA 95616, USA
FEATURES
source
1. .2518
/organism="Homo sapiens"
/db_xref="taxon:9606"
/tissue_type="small intestine"
1. .2518
/gene="FGCP"
139. .2391
/gene="FGCP"
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/protein_id="AAD51121.1"
/db_xref="GI:5762482"
/translation="MNLLHETDSAVALARRRRLCAGALVLAGGFLLGLFGWFIK
SSNEATNITPKHNMKAFLDLKAENIKFLYNFTQIPLAGTEQNFOLAKQIOSQWKE

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DIYVP FSAFSPQGMPEGDLVYVNYARTEDFFLKERDMKINCSGIVIARYGKVRGNKVKNAQ
LAGAKGVLISDPADYFAPGVKSPDGMNLPGGVQRGNILNLNGADPLTPGYPANE
YARRGIAEAVGLPSIPVHPIGYDAQKLEKMGGSAPDSSWRGSLKVPYNVGPFT
GNFSTQKVKMHIHSTNEVTRIVNIGTLRGAVEPDRYVILGHRDSWVFGIDPQSGA
AVVHEIVRSFGLTKEGWRPRRTILFASWDAEFGLLGSTWAEENSRLQERGVAI
NADSSIEGNTLRYDCTPLMYSLVHNLTKELKSPDEGEFGKSLYESWTKSPSEFSG
MPRISKLGSGNDEFEVFFQRLGIASGRARYTKMWTNKFSGYPLHVSYTEYELVEKY
DPMFKYHLTVAQVRGGMVFEELANSIVLPDCRDYAVVLARKYADKIYISMKHPQEMKT
YSVSFDSLFSAVKNFTEIASKFSERLODFDKSNPIVLRMNDQLFLERAFIDPLGLP
DRPFYRHVIYAPSSHNKYAGESFPGIYDALFDIESKVDPSKAWGEVKKQIYVAAFTVQ
AAAEITLSEVA"

BASE COUNT 747 a 491 c 604 g 676 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 2518;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
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Db 2269 GCTCTGTTGATATTGAAAGCAAGTG 2295

RESULT 11
AX376036 2558 bp DNA linear PAT 01-MAR-2002
LOCUS
DEFINITION Sequence 103 from Patent WO0168848.
ACCESSION AX376036
VERSION AX376036.1 GI:19170410
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Baker,K.P., Chen,J., Desnoyers,L., Goddard,A., Godowski,P.J.,
Gurney,A.L., Pan,J., Smith,V., Watanabe,C.K., Wood,W.I. and
Zhang,Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0168848-A 103 20-SEP-2001;
Genentech, Inc. (US)
FEATURES
source
1. .2558
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 745 a 509 c 623 g 681 t

Query Match 100.0%; Score 27; DB 6; Length 2558;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
|||||
Db 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340

RESULT 12
AX337498 2653 bp DNA linear PAT 09-JAN-2002
LOCUS
DEFINITION Sequence 8007 from Patent WO0194629.
ACCESSION AX337498
VERSION AX337498.1 GI:18128217
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horrigan,S., Soppet,D.R. and Weaver,Z.

TITLE Cancer gene determination and therapeutic screening using signature gene sets
JOURNAL Patent: WO 0194629-A 8007 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES Location/Qualifiers
source 1..2653
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 782 a 524 c 640 g 707 t
ORIGIN

Query Match: 100.0%; Score 27; DB 6; Length 2653;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATTGAAGCAAGTG 2418

RESULT 13
LOCUS 123794 2653 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 1 from patent US 5538866.
ACCESSION 123794
VERSION 123794.1 GI:1603664
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 2653)
AUTHORS Israeli,R.S., Heston,W.D.W. and Fair,W.R.
TITLE Prostate-specific membrane antigen
JOURNAL Patent: US 5538866-A 1 23-JUL-1996;
FEATURES Location/Qualifiers
source 1..2653
/organism="unknown"

BASE COUNT 782 a 524 c 640 g 707 t
ORIGIN

Query Match: 100.0%; Score 27; DB 6; Length 2653;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATTGAAGCAAGTG 2418

RESULT 14

LOCUS HUMPSM 2653 bp mRNA linear PRI 08-JAN-1995
DEFINITION Human prostate-specific membrane antigen (PSM) mRNA, complete cds.
ACCESSION M99487
VERSION M99487.1 GI:190663
KEYWORDS prostate-specific membrane antigen.
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 2653)
AUTHORS Israeli,R.S., Powell,C.T., Fair,W.R. and Heston,W.D.
TITLE Molecular cloning of a complementary DNA encoding a prostate-specific membrane antigen

JOURNAL Cancer Res. 53 (2), 227-230. (1993)
MEDLINE 93113576
PUBMED 8417812

FEATURES Location/Qualifiers
source 1..2653
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/db_xref="taxon:9606"
/sex="male"

/cell_line="LNCap-ATCC"
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/tissue_type="prostatic carcinoma metastatic lymph node"
/germline
/tissue_lib="LNCap cDNA of Ron Israeli"
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262..2514
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/db_xref="GI:190664"

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FSAFSPQGMPEGDLVYVNVARTDEFEKLERDMKINCSGKIYARYGVFRGNKYNAO
LAGAKGVILYSDPADYFAPGVKSYPDGWNLPGGVQRGNTLNLGAGDPLTPGYANE
YAYRRCIAEAVGLPSIPVHPDGYDDAOKLLEKMGSGAPDDSSWRGSLKVPYNVGEFT
GNSTOKVKMHISTNEVRIYINVTGLRGAVEPDRIYVILGHRDSWVFGIDPOGA
AVYHEIVRSEFGLTKEGWRPRTILFASWDAEEFGLGSTWAEENSRLQERVAI
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YSVSFDSLFSAVKNFETELASKESERLQDFKSNPIVLRMNDQLFLERAFIDPLGLP
DRPFYRHVITYAPSSHNKYAGESEFGIYDALFDIESKVDPSKAMGEVKRQIYVAFTVO
AAAELESEVA"

BASE COUNT 782 a 524 c 640 g 707 t
ORIGIN

Query Match: 100.0%; Score 27; DB 9; Length 2653;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATTGAAGCAAGTG 2418

RESULT 15
LOCUS AF007544 93525 bp DNA linear PRI 10-DEC-1998
DEFINITION Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds.
ACCESSION AF007544
VERSION AF007544.1 GI:2970122
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 93525)
AUTHORS O'Keefe,D.S., Su,S.L., Bacich,D.J., Horiguchi,Y., Luo,Y.,
Powell,C.T., Zandvliet,D., Russell,P.J., Molloy,P.L., Nowak,N.J.,
Shows,T.B., Mullins,C., Vonder Haar,R.A., Fair,W.R. and Heston,W.D.
TITLE Mapping, genomic organization and promoter analysis of the human prostate-specific membrane antigen gene

JOURNAL Biochim. Biophys. Acta 1443 (1-2), 113-127 (1998)
MEDLINE 99057588
PUBMED 9838072

REFERENCE 2 (bases 1682 to 65315)
AUTHORS Heston,W.D.W., Su,S.L., Luo,Y., Huryk,R., Bacich,D.J., Fair,W.R.,
Mullins,C. and Vonder Haar,R.A.
TITLE Direct Submission

JOURNAL Submitted (06-JUN-1997) Memorial Sloan Kettering Cancer Center,
1275 York Avenue, New York, New NY 10021, USA
3 (bases 1 to 93525)

REFERENCE O'Keefe,D.S., Su,S.L., Luo,Y., Horiguchi,Y., Bacich,D.J.,
Powell,C.T., Zandvliet,D., Russell,P.J., Molloy,P.L., Nowak,N.J.,
Mullins,C., Vonder Haar,R.A., Fair,W.R. and Heston,W.D.W.
TITLE Direct Submission
JOURNAL Submitted (18-MAR-1998) Memorial Sloan Kettering Cancer Center,

REMARK 1275 York Avenue, New York, New NY 10021, USA
COMMENT Sequence update by submitter
On Mar 19, 1998 this sequence version replaced gi:2897945.
FEATURES Location/Qualifiers
Source 1. .93525

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="11"
/map="1p11-12"
2488. .64518
/gene="PSM"

mRNA
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36196. .36281,37697. .37816,39896. .39978,41911. .41974,
46402. .46469,53129. .53220,54364. .54454,56661. .56925,
57226. .57307,62423. .62515,64209. .64518)
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CDS
/product="prostate-specific membrane antigen"
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36196. .36281,37697. .37816,39896. .39978,41911. .41974,
46402. .46469,53129. .53220,54364. .54454,56661. .56925,
57226. .57307,62423. .62515,64209. .64398)
/gene="PSM"
/note="PSMA"

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/protein_id="AAC83972.1"
/db_xref="GI:2897946"

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SSNEATNTPKHNKMAFLDELKAENIKKFLHNTQIPLHAGTEQNFQAKQIQSQWKE
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FSAFSPQMEGDLVYVNYARTEDFEKLEDMKINCSGKIVARYGVFRGNKVKNAQ
LAGAKGVTLYSDPADYFAPGVKSYPDGWNLPGGVGORGNILNNGAGDPLTPGPANE
YAYRRGIAEAVGLPSIPVHPIGYIDAQKLEKMGGSAPPDSSWRGSLKVPYNVGPFT
GNFSTOKVMHIHSTNEVTRIVNIGTLGRAVEPDRIYVILGHRDSWVFGIDPQSGA
AVVHEIVRSFGLTKEGWRPRRTILFASWDAEEFGLGSTEWAEENSRLQERGVAI
NADSSIEGNTLRVDCTPLMYSLVHNTKELKSPDEGFEGKSLYESWTKKSPSPESG
MPRIKSLGSGNDEFEVFFORLGIASGRARYTKMETNKFSGYPLVHSVETVELVEKY
DPMFKYHLTYAQVRGGMVFEELANSIVLPDCRDYAVVLRKYADKIYSISMKHPQEMKT
YSVSFDSLFSAVKNFTETIASKFSERLQDFDKNPIVLRMNDQIMFLERAFIDPLGLP
DRPFYRHVIYAPSSHNKYAGESFPGIYDALFDIESKVDPSKAWGEVKQIYVAFTVQ
AAAEITLSEVA"

BASE COUNT 28711 a 17148 c 16599 g 31061 t 6 others
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 93525;
Best Local Similarity 100.0%; Pred. No. 0.76;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
Db 64276 GCTCTGTTGATATTGAAGCAAGTG 64302

Search completed: April 14, 2003, 14:09:18
Job time : 534.667 secs

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:27:29 ; Search time 99 Seconds
(without alignments)
614.181 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27
Sequence: 1 gctctgttgatatattgaagcaaatg 27

Scoring table: IDENTITY_NUC
Gapcp 10.0 , Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0.
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	27	100.0	27	22	AAS15144	Human DNA encoding
2	27	100.0	435	23	ABV43871	Human prostate exp
3	27	100.0	442	24	ABK64577	Human benign prost
4	27	100.0	578	23	ABV43616	Human prostate exp
5	27	100.0	1037	21	AA15651	Human prostate can
6	27	100.0	1992	21	AAC61762	CDNA encoding a pr
7	27	100.0	2061	24	AAD34009	Human gene 4 CDNA.
8	27	100.0	2253	21	AAA09454	Human prostate spe
9	27	100.0	2558	21	AAC78599	Human PRO739 nucle

10	27	100.0	2558	22	AAS45976	Human DNA encoding
11	27	100.0	2653	15	AAQ65520	Prostate-specific
12	27	100.0	2653	24	ABK86204	CDNA encoding huma
13	27	100.0	2653	24	ABK64556	Human benign prost
14	27	100.0	2653	24	ABL69670	Prostate cancer re
15	27	100.0	2654	17	AAT36785	Prostate-specific
16	27	100.0	2884	23	ABV22873	Human prostate exp
17	27	100.0	2884	23	ABV23013	Human prostate exp
18	27	100.0	2884	23	ABV28703	Human prostate exp
19	27	100.0	2884	23	ABV28849	Human prostate exp
20	25.4	94.1	308	23	ABV13912	Human prostate exp
21	25.4	94.1	455	23	ABV35023	Human prostate exp
22	25.4	94.1	2226	21	AAAI2732	DNA encoding a hum
23	24	88.9	434	23	ABV18480	Human prostate exp
24	23.8	88.1	218	23	ABV34764	Human prostate exp
25	23.8	88.1	309	23	ABV13650	Human prostate exp
26	23.8	88.1	486	23	ABV48264	Human prostate exp
27	22.4	83.0	330	23	ABV04743	Human prostate exp
28	19.8	73.3	703	21	AAA81857	N. meningitidis pa
29	19.8	73.3	9941	21	AAA81461	N. meningitidis pa
30	19.8	73.3	349980	21	AAF21607	Neisseria meningit
31	19.8	73.3	1437668	21	AAA81490	N. meningitidis B
32	19.6	72.6	17381	21	AAA81493	N. meningitidis pa
33	18.6	68.9	303	22	AAK70893	Human immune/haema
34	18.6	68.9	348	22	AAK57686	Human immune/haema
35	18.6	68.9	759	23	AAS76034	DNA encoding novel
36	18.6	68.9	1589	21	AAC44844	Arabidopsis thalia
37	18.6	68.9	3110	21	AAZ58312	Human peptidase NA
38	18.6	68.9	3171	22	AAF93781	Human CDNA encodin
39	18.6	68.9	3771	22	AAH98667	Human EST-derived
40	18.2	67.4	644	21	AAA02476	Human colon cancer
41	18.2	67.4	1268	18	AAV74604	Staphylococcus aur
42	18.2	67.4	1473	21	AAC43234	Arabidopsis thalia
43	18.2	67.4	1599	24	ABO54279	Human ovarian antl
44	18.2	67.4	1620	18	AAT84030	DNA encoding Staph
45	18.2	67.4	1620	19	AAV53424	DNA encoding a pri

ALIGNMENTS

RESULT 1
AAS15144
ID AAS15144 standard; DNA: 27 BP.

AC AAS15144;
XX
DT 16-JAN-2002 (first entry)
XX

DE Human DNA encoding a PSMA derived immunogenic peptide CLP337.

XX Human; ds; PSMA: prostate specific membrane antigen; prostate cancer;
KW tumour; immunogenic peptide; cytostatic; gene therapy; CLP337.
XX

OS Homo sapiens.

XX
FH Key
FT CDS
FT
FT
FT
FT
FT
FT

Location/Qualifiers
1..27
/*tag= a
/product= "CLP337"
/partial
/note= "No start or stop codon"

PN WO200174845-A2.

XX 11-OCT-2001.

PD 30-MAR-2001; 2001WO-CA00411.

PF 31-MAR-2000; 2000US-193386P.

PR (AVET) AVENTIS PASTEUR LTD.

XX

PI Pedyczak A, Chong P, Sia CDY;
XX
DR WPI; 2001-626378/72.
DR P-PSDB; AAU09109.
XX
PT New polypeptides useful for inducing an immune response and treating
PT prostate cancer comprises polypeptides derived from the prostate
PT specific membrane antigen
XX
PS Claim 6; Page 15; 47pp; English.
XX
CC The invention relates to prostate specific membrane antigen (PSMA)
CC derived peptides (and the nucleic acids encoding them) capable of
CC eliciting an immune response. The molecules of the invention are used to
CC elicit an immune response, particularly to treat cancer and tumours,
CC especially prostate cancer. Delivery of the peptides may be by
CC expression from the nucleic acids encoding them (i.e. gene therapy).
CC The present sequence encodes a PSMA derived immunogenic peptide.
XX
SQ Sequence 27 BP; 8 A; 3 C; 7 G; 9 T; 0 other;

Query Match 100.0%; Score 27; DB 22; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.042;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
ID 1 GCTCTGTTGATATTGAAGCAAGTG 27

RESULT 2
ABV43871/c
ID ABV43871 standard; cDNA; 435 BP.

AC ABV43871;
DT 16-SEP-2002 (first entry)
DE Human prostate expression marker cDNA 43862.

KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.

OS Homo sapiens.
PN WO200160860-A2.

PD 23-AUG-2001.

PF 20-FEB-2001; 2001WO-US05171.

PR 17-FEB-2000; 2000US-183319P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PI Schlegel R, Endege WO, Monahan JE;

DR WPI; 2001-662795/76.

PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer
XX

PS Claim 1; Page 8725; 11750pp; English.

CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:

CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 435 BP; 122 A; 99 C; 70 G; 144 T; 0 other;

Query Match 100.0%; Score 27; DB 23; Length 435;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
ID 309 GCTCTGTTGATATTGAAGCAAGTG 283

RESULT 3
ABK64577/c

ID ABK64577 standard; DNA; 442 BP.

AC ABK64577;
DT 18-JUN-2002 (first entry)

DE Human benign prostatic hyperplasia gene #472.

KW Human; benign prostatic hyperplasia; BPH; prostate cancer; gene; ds.

OS Homo sapiens.

PN WO200212440-A2.

PD 14-FEB-2002.

PF 07-AUG-2001; 2001WO-US24708.

PR 07-AUG-2000; 2000US-223323P.
PR 05-JUN-2001; 2001US-0873319.

PA (GENE-) GENE LOGIC INC.
PA (NISB) JAPAN TOBACCO INC.

PI Munger WE, Kulkarni P, Getzenberg RH, Waga I, Yamamoto J;

DR WPI; 2002-257476/30.

PT Identifying drugs for and diagnosing benign prostatic hyperplasia, by
PT detecting expression levels of one or more genes in prostate cells from
PT patient that are differentially regulated compared to normal prostate
PT cells
XX

PS Disclosure; Page 274; 444pp; English.

CC The invention relates to a method of diagnosing (I) the onset or
CC progression of benign prostatic hyperplasia (BPH), or screening (II) for
CC or identifying an agent that modulates the onset or progression of BPH.
CC The method is based on changes in gene expression in BPH tissue isolated
CC from patients exhibiting different clinical states of prostate
CC hyperplasia as compared to normal prostate tissue. (I) comprises
CC detecting the expression levels of one or more genes in prostate cells
CC from the subject that are differentially regulated compared to normal
CC prostate cells. (II) comprises preparing a first gene expression profile
CC of BPH cells or BPH-like cell population, exposing the cells to the
CC agent, preparing a second gene expression profile of the agent exposed
CC cells, and comparing the first and second gene expression profiles.

CC (I) is useful for diagnosing the onset or progression of BPH. (II) is
CC useful for identifying an agent that modulates the onset or progression
CC of BPH. The methods are useful to present information identifying
CC the expression level in a tissue or cells, by comparing the expression
CC level of genes given in the specification in the tissue or cells to the
CC level of expression of gene in the database, and displaying the
CC expression levels of at least one gene in the tissue or cell sample
CC compared to the expression level in BPH. Agents using (II) are useful for
CC treating BPH or prostate cancer. ABK64106-ABK64860 represent human
CC benign prostatic hyperplasia gene sequences of the invention.
XX

SQ Sequence 442 BP; 127 A; 102 C; 71 G; 142 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 442;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
ID AAF15651 standard; cDNA; 1037 BP.
XX
Db 241 GCTCTGTTGATATGGAAGCAAGTG 215

RESULT 4
ABV43616/C
ID ABV43616 standard; cDNA; 578 BP.
XX

AC ABV43616;
XX
DT 16-SEP-2002 (first entry)
XX

DE Human prostate expression marker cDNA 43607.
XX

KW Human: prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.
XX

OS Homo sapiens.
XX

PN WO200160860-A2.
XX

PD 23-AUG-2001.
XX

PF 20-FEB-2001; 20J1WO-US05171.
XX

PR 17-FEB-2000; 20J0US-183319P.
PR 16-MAR-2000; 20J0US-189862P.
PR 25-MAY-2000; 20J0US-207454P.
PR 09-JUN-2000; 20J0US-211314P.
PR 18-JUL-2000; 20J0US-219007P.
PR 13-DEC-2000; 20J0US-255281P.
XX

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX

PI Schlegel R, Enjege WO, Monahan JE;
XX

DR WPI; 2001-662795/76.
XX

PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer -
XX

PS Claim 1; Page 8684; 11750pp; English.
XX

CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;

CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX

SQ Sequence 578 BP; 162 A; 125 C; 101 G; 190 T; 0 other;

Query Match 100.0%; Score 27; DB 23; Length 578;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
ID AAF15651 standard; cDNA; 1037 BP.
XX
Db 317 GCTCTGTTGATATGGAAGCAAGTG 291

RESULT 5
AAF15651
ID AAF15651 standard; cDNA; 1037 BP.
XX

AC AAF15651;
XX

DT 13-MAR-2001 (first entry)
XX

DE Human prostate cancer antigen nucleotide sequence SEQ ID NO:86.
XX

KW Human: prostate cancer; prostate cancer antigen; detection; diagnosis;
KW neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular;
KW vulnery; gastrointestinal; nephrotropic; antiinfective; gynaecological;
KW antibacterial; gene therapy; neural; immune; reproductive; renal;
KW gastrointestinal; pulmonary; cardiovascular; proliferative disorder;
KW wound; infectious disease; ss.
XX

OS Homo sapiens.
XX

PN WO200055174-A1.
XX

PD 21-SEP-2000.
XX

PF 08-MAR-2000; 2000WO-US05988.
XX

PR 12-MAR-1999; 99US-0124270.
XX

PA (HUMA-) HUMAN GENOME SCI INC.
(ROSE/) ROSEN C A.
XX

PI Rosen CA, Ruben SM;
XX

DR WPI; 2000-587513/55.
XX

DR P-PSDB; AAB56448.
XX

PT Prostate cancer associated gene sequences, referred to as prostate
PT cancer antigens, useful for treatment, prevention, and diagnosis of
PT disorders such as prostate cancer -
XX

PS Claim 1; Page 672-673; 2338pp; English.
XX

CC AAF1566 to AAF16505 encode the human prostate cancer associated
CC proteins, called prostate cancer antigens, given in AAB56363 to AAB57302.
CC The prostate cancer antigens can have neuroprotective, cytostatic,
CC cardioactive, immunomodulatory, muscular, vulnery, gastrointestinal,
CC nephrotropic, antiinfective, gynaecological and antibacterial activities,
CC and can be used in gene therapy. The prostate cancer antigen
CC polynucleotides may be used for detection of prostate cancer, chromosome
CC identification, as chromosome markers, and for numerous other diagnostic
CC or research purposes. The prostate cancer antigens may be used to treat
CC disorders such as neural, immune, muscular, reproductive,
CC gastrointestinal, pulmonary, cardiovascular, renal, and proliferative
CC disorders, wounds, and infectious diseases. AAF16506 to AAF16514 to
CC AAB57303 represent sequences used in the exemplification of the present
CC invention.
XX

SQ Sequence 1037 BP; 337 A; 174 C; 228 G; 297 T; 1 other;

Query Match 100.0%; Score 27; DB 21; Length 1037;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
DB 780 GCTCTGTTGATATTGAAGCAAGTG 806

RESULT 6
AAC61762
ID AAC61762 standard; cDNA; 1992 BP.
XX
AC AAC61762;
XX
DT 06-MAR-2001 (first entry)
XX
DE cDNA encoding a prostate-specific membrane antigen-like protein.

XX
KW Human; prostate specific membrane antigen like protein; cancer;
KW PSMA-like protein; chromosome 11q14.3; schizophrenia;
KW schizophrenia disorder type II locus; ss.
XX
OS Homo sapiens.

XX
FH Key Location/Qualifiers
FT CDS 527..1855
FT /tag= a
FT /product= "prostate-specific membrane antigen-like protein"

XX WO200061605-A1.

XX PD 19-OCT-2000.

XX PF 07-APR-2000; 2000WO-US09417.

XX PR 09-APR-1999; 99US-0128839.

XX PA (SLOK) SLOAN KETTERING INST CANCER RES.

XX PI Heston WDW, O'Keefe DS;

XX DR WPI; 2000-679461/66.

XX P-PSDB; AABI9377.

PT New DNA fragment encoding mammalian prostate specific membrane antigen
PT (PSMA) like protein, useful for distinguishing mammalian PSMA gene
PT expression or protein from PSMA-like gene expression or protein
XX
PS Claim 2; Page 56-57; 75pp; English.

XX The present sequence encodes a human prostate specific membrane
CC antigen (PSMA) like protein. The PSMA-like gene is mapped to chromosome
CC 11q14.3, to the schizophrenia disorder type II locus. Antibodies
CC directed against PSMA-like protein are useful for diagnosing cancers
CC (prostate, bladder, pancreatic, sarcoma, melanoma, lung or kidney) or
CC neurological disorders such as schizophrenia. They may also be used
CC for screening for ligands of PSMA-like protein and imaging cells
CC expressing PSMA-like protein.

XX Sequence 1992 BP; 638 A; 352 C; 451 G; 551 T; 0 other;

Query Match 100.0%; Score 27; DB 21; Length 1992;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
DB 1733 GCTCTGTTGATATTGAAGCAAGTG 1759

RESULT 7
AAD34009
ID AAD34009 standard; cDNA; 2061 BP.

XX AAD34009;

XX DT 25-JUL-2002 (first entry)

XX DE Human gene 4 cDNA.

XX
KW Human; gene 4; N-acetylated-gamma-linked-acidic dipeptidase; NAALadase;
KW chromosome 11; drug identification; glutamate peptidase modulator;
KW schizophrenia; therapy; gene; ss.

XX OS Homo sapiens.

XX
FH Key Location/Qualifiers
FT CDS 1..2061
FT /tag= a
FT /product= "Human protein having NAALadase like activity"
FT /note= "CDS does not include start and stop codon"
FT /partial

XX PN WO200226991-A2.

XX PD 04-APR-2002

XX PF 21-SEP-2001; 2001WO-EP10998.

XX PR 28-SEP-2000; 2000EP-0308551.

XX PA (ALKU) AKZO NOBEL NV.

XX PA (MEDR-) MED RES COUNCIL.

XX PA (UYED-) UNIV EDINBURGH.

XX PI Semple CAM, Dunbar DR;

XX DR WPI; 2002-362499/39.

XX P-PSDB; AAE21450.

PT Polypeptide with NAALadase (N-acetylated-gamma-linked-acidic
PT dipeptidase) like activity useful for the identification of new drugs,
PT such as glutamate peptidase modulators, which may be used to treat
PT schizophrenia

XX Claim 2; Page 15; 15pp; English.

XX The present sequence is human gene 4 cDNA which encodes protein having
CC N-acetylated-gamma-linked-acidic dipeptidase (NAALadase) like activity.
CC Gene 4 is located on chromosome 11. The invention relates to human
CC protein having NAALadase like activity and nucleic acid molecule
CC encoding such protein. Sequences of the invention are used to identify
CC drugs such as glutamate peptidase modulators which may be used to
CC treat schizophrenia.

XX Sequence 2061 BP; 630 A; 391 C; 468 G; 572 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 2061;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
DB 1942 GCTCTGTTGATATTGAAGCAAGTG 1968

RESULT 8
AAA09454
ID AAA09454 standard; DNA; 2253 BP.

XX AAA09454;

DT 10-AUG-2000 (first entry)

XX DE Human prostate ;specific membrane antigen coding sequence.
XX XX
KW Prostate specific membrane antigen; splice variant; vaccination;
KW cytotoxic T-lymphocyte immunity; self-protein; cancer; breast cancer;
KW prostate cancer; cell-associated peptide antigen; foreign epitope; ss.
XX XX
OS Homo sapiens.
XX XX
FH Key Location/Qualifiers
FT CDS 1..2253
FT /*tag= a
FT /product= PSM
FT 172..2253
FT CDS
FT /*tag= b
FT /product= PSM/
FT /note= "splice variant"
PN WO200020027-A2.
XX XX
PD 13-APR-2000.
XX XX
PF 05-OCT-1999; 39WO-DK00525.
XX XX
PR 05-OCT-1998; 38DK-0001261.
PR 20-OCT-1998; 38US-0105011.
XX XX
PA (MEBI-) M & E BIOTECH AS.
XX XX
PI Steinaa L, Mouritsen S, Nielsen KG, Haaning J, Leach D, Dalum I;
PI Gautam A, Birk P, Karlsson G;
XX XX
DR WPI; 2000-349917/30.
DR P-PSDB; AAY92613.
XX XX
PT Inducing immune responses to weakly immunogenic, tumor associated
PT peptide antigens for the treatment of breast and prostate cancer
XX XX
PS Example 1; Page 180-184; 220pp; English.
XX XX
CC The claims detail a method for inducing immune responses against weakly
CC immunogenic cell-associated peptide antigens (PA) such as those
CC associated with cancers (i.e. self-proteins), for example, human
CC prostate specific membrane antigen (PSM), heregulin 2 (Her2) and/or
CC fibroblast growth factor 8b (FGF8b). The method comprises effecting
CC simultaneous presentation by antigen producing cells (APCs) of the
CC animals immune system of: (1) at least 1 CTL (cytotoxic T-lymphocyte)
CC group derived from the PA and/or at least 1 B-cell group derived from the
CC cell-associated PA; and (2) at least 1 first T helper cell group which is
CC foreign to the animal. Analogues of human PSM, human Her2 and
CC human/murine FGF8b comprising a substantial part of all known and
CC predicted CTL and B-cell epitopes of the respective PA and including at
CC least one foreign T helper epitope are also claimed. The method is used
CC to treat prostate, prostate/breast or breast cancer when the PA is human
CC PSM, FGF8b and Her2, respectively.
XX XX
SQ Sequence 2253 BP; 670 A; 448 C; 527 G; 608 T; 0 other;
QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2131 GCTCTGTTGATATTGAAGCAAGTG 2157
Query Match 100.0%; Score 27; DB 21; Length 2253;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 9
AAC78599
ID AAC78599 standard; cDNA; 2558 BP.
XX AC AAC78599;
XX

DT 08-FEB-2001 (first entry)
XX XX
DE Human PRO739 nucleotide sequence SEQ ID NO:617.
XX XX
KW Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW expressed sequence tag; detection; cancer; ss.
XX XX
OS Homo sapiens.
XX XX
PN WO200053756-A2.
XX XX
PD 14-SEP-2000.
XX XX
PF 18-FEB-2000; 2000WO-US04341.
XX XX
PR 08-MAR-1999; 99WO-US05028.
PR 12-MAR-1999; 99US-0123957.
PR 29-MAR-1999; 99US-0126773.
PR 21-APR-1999; 99US-0130232.
PR 28-APR-1999; 99US-0131445.
PR 14-MAY-1999; 99US-0134287.
PR 23-JUN-1999; 99US-0141037.
PR 26-JUL-1999; 99US-0145698.
PR 29-OCT-1999; 99US-0162506.
PR 30-NOV-1999; 99WO-US28313.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28565.
PR 16-DEC-1999; 99WO-US30095.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
XX XX
PA (GETH) GENENTECH INC.
XX XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;
PI Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
XX XX
DR WPI; 2000-611443/58.
DR P-PSDB; AAB44334.
XX XX
PT Novel PRO polypeptides and polynucleotides used in detection methods,
PT to target bioactive molecules to specific cells, and to modulate
PT cellular activities -
XX XX
PS Claim 2; Fig 235; 636pp; English.
XX XX
CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed
CC sequence tag) sequences which encode secreted or transmembrane PRO
CC polypeptides. The PRO polynucleotides and polypeptides have cytostatic
CC activity. The polynucleotides and polypeptides can be used for detecting
CC the presence of PRO polypeptides in samples, for linking bioactive
CC molecules to cells and for modulating biological activities of cells,
CC using the polypeptides for specific targeting. The polypeptide targeting
CC can be used to kill the target cells, e.g. for the treatment of cancers.
CC The polypeptide pairs provide specific targeting of bioactive molecules
CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
CC the isolation of the PRO polynucleotide sequences.
XX XX
SQ Sequence 2558 BP; 745 A; 509 C; 623 G; 681 T; 0 other;

QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAGCAAGTG 2340
Query Match 100.0%; Score 27; DB 21; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 10
AAS45976
ID AAS45976 standard; cDNA; 2558 BP.
XX
AC AAS45976;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human DNA encoding PRO polypeptide sequence #52.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep; ss;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;
KW PCR primer.
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
XX
PD 20-SEP-2001.
XX
PF 28-FEB-2001; 2001WO-US06520.
XX
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 03-MAR-2000; 2000US-187202P.
PR 06-MAR-2000; 2000US-186968P.
PR 14-MAR-2000; 2000US-189320P.
PR 14-MAR-2000; 2000US-189328P.
PR 15-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000US-190828P.
PR 21-MAR-2000; 2000US-191007P.
PR 21-MAR-2000; 2000US-191048P.
PR 21-MAR-2000; 2000US-191314P.
PR 28-MAR-2000; 2000US-192655P.
PR 29-MAR-2000; 2000US-193032P.
PR 29-MAR-2000; 2000US-193053P.
PR 30-MAR-2000; 2000WO-US08439.
PR 04-APR-2000; 2000US-194449P.
PR 04-APR-2000; 2000US-194647P.
PR 11-APR-2000; 2000US-195975P.
PR 11-APR-2000; 2000US-196000P.
PR 11-APR-2000; 2000US-196187P.
PR 11-APR-2000; 2000US-196690P.
PR 11-APR-2000; 2000US-196820P.
PR 18-APR-2000; 2000US-198121P.
PR 18-APR-2000; 2000US-198585P.
PR 25-APR-2000; 2000US-199397P.
PR 25-APR-2000; 2000US-199550P.
PR 25-APR-2000; 2000US-199654P.
PR 03-MAY-2000; 2000US-201516P.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 05-JUN-2000; 2000US-209832P.
PR 28-JUL-2000; 2000WO-US20710.
PR 22-AUG-2000; 2000US-0644848.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
XX
PA (GETH) GENENTECH, INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2001-602746/68.
DR P-PSDB; AAU29075.
XX

PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
PT to screen for modulators of the compounds
XX
PS Claim 2; Fig 103; 774pp; English.
XX
CC Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR
CC primers for PRO polypeptides of the invention. The sequences of the
CC invention can be used to detect the presence of a tumour in a mammal by
CC comparing the level of expression of a PRO polypeptide in a test sample
CC of cells from the animal and a control sample of normal cells, whereby a
CC higher level of expression in the test sample indicates the presence of a
CC tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep,
CC pigs, goats and rabbits but are preferably human. The polypeptides can be
CC used to stimulate tumour necrosis factor (TNF) alpha release from human
CC blood, when contacted with it. A specific polypeptide can be used to
CC stimulate the proliferation or differentiation of chondrocyte cells. The
CC PRO proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX
SQ Sequence 2558 BP; 745 A; 509 C; 623 G; 681 T; 0 other;

Query Match 100.0%; Score 27; DB 22; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
DB 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340

RESULT 11
AAQ65520
ID AAQ65520 standard; cDNA; 2653 BP.
XX
AC AAQ65520;
XX
DT 11-JAN-1995 (first entry)
XX
DE Prostate-specific membrane antigen cDNA.
XX
KW Prostate-specific membrane antigen; PSM; prostate cancer;
KW transmembrane glycoprotein; imaging; targeting; tumour detection;
KW antibody detection; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FH CDS 262..2514
FT /*tag= a
FT /product= prostate specific membrane antigen (PSM)
XX
PN WO9409820-A.
XX
PD 11-MAY-1994.
XX
PF 05-NOV-1993; 93WO-US10624.
XX
PR 05-NOV-1992; 92US-0973337;
XX
PA (SLOK) SLOAN KETTERING INST CANCER.
XX
PI Fair WR, Heston WD, Israeli RS;
XX
DR WPI; 1994-167129/20.
DR P-PSDB; AAR55097.
XX
PT Prostate-specific membrane antigen and DNA encoding it - is
PT useful for detecting haematogenous micro-metastatic tumour cells
PT and for identifying ligands which bind to PSM Ag

XX Claim 3; Page 103-106; 196pp; English.
PS
XX
CC AAQ65520 encodes a prostate specific membrane antigen (PSM, AAR55097).
CC The PSM coding sequence is useful for suppressing or modulating the
CC metastatic ability of prostate tumour cells to grow, or for
CC eliminating them. The protein is useful to identify or purify ligands
CC of the Ag. It is also an attractive target for Ab-directed imaging
CC and targeting of prostatic tumour deposits.
XX
SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;
Query Match 100.0%; Score 27; DB 15; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
DB 2392 GCTCTGTTGATATTGAAGCAAGTG 2418
RESULT 12
ABK86204
ID ABK86204 standard; cDNA; 2653 BP.
XX
AC ABK86204;
XX
DT 24-SEP-2002 (first entry)
XX
DE cDNA encoding human prostate specific membrane antigen (PSMA) variant.
XX
KW Human; prostate specific membrane antigen; PSMA; cytostatic; antiviral;
KW immunostimulant; cell-mediated immune response; tumour; breast cancer;
KW virus infection; prostate cancer; colorectal cancer; pancreatic cancer;
KW lymphoma; leukemia; hepatitis; lentivirus; herpesvirus;
KW human immunodeficiency virus; HIV; flavivirus; pestivirus; gene; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 262..2514
FT /*tag= a
FT /product= "Prostate specific membrane antigen (PSMA)
FT variant with signal sequence deleted"
XX
PN WO200240059-A2.
XX
PD 23-MAY-2002.
XX
PF 01-NOV-2001; 2001WO-US45626.
XX
PR 01-NOV-2000; 2000US-0704232.
XX
PI (AMBI-) AMERICAN FOUND BIOLOGICAL RES INC.
PA (MINC/) MINCHEFF M S.
PA (LOUK/) LOUKINOV D I.
PA (ZOUB/) ZOUBAK S.
XX
PI Mincheff MS, Loukinov DI, Zoubak S;
XX
DR WPI; 2002-527524/56.
DR P-PSDB; AAU98920.
XX
PT Inducing a cell-mediated immune response against a target antigen,
PT reducing undesired cells and stimulating presentation of an antigen by
PT a cell, comprises administering a polynucleotide encoding a variant of
PT an antigen
XX
PS Example 1; Page 114-118; 146pp; English.
XX
CC The invention relates to a method of inducing a cell-mediated immune
CC response against a cell comprising a target antigen (I) in a subject,
CC treating a subject having undesired cells, for example tumour cells

CC or virally infected cells (C), reducing the number of (C) in a subject,
CC and stimulating presentation of (I) by a cell. This is done by
CC administering a polynucleotide (II) encoding a variant of (I), so that
CC (II) expressed in a cell and cell-mediated immune response is induced.
CC The method can be used to treat prostate cancer, breast cancer,
CC colorectal cancer and pancreatic cancer, as well as lymphomas and
CC leukemias. The method is also useful in treating chronic viral
CC infections such as those caused by hepatitis, lentiviruses
CC (including human immunodeficiency virus (HIV)), herpesviruses and the
CC flaviviruses and pestiviruses. The present sequence represents the coding
CC sequence of human prostate specific membrane antigen (PSMA) variant
CC which has the signal sequence deleted, used as a target antigen in the
CC method of the invention.
XX
SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;
Query Match 100.0%; Score 27; DB 24; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
DB 2392 GCTCTGTTGATATTGAAGCAAGTG 2418
RESULT 13
ABK64556
ID ABK64556 standard; DNA; 2653 BP.
XX
AC ABK64556;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human benign prostatic hyperplasia gene #451.
XX
KW Human; benign prostatic hyperplasia; BPH; prostate cancer; gene; ds.
XX
OS Homo sapiens.
XX
PN WO200212440-A2.
XX
PD 14-FEB-2002.
XX
PF 07-AUG-2001; 2001WO-US24708.
XX
PR 07-AUG-2000; 2000US-223323P.
PR 05-JUN-2001; 2001US-0873319.
XX
PA (GENE-) GENE LOGIC INC.
PA (NISB) JAPAN TOBACCO INC.
XX
PI Munger WE, Kulkarl P, Getzenberg RH, Waga I, Yamamoto J;
XX
DR WPI; 2002-257476/30.
XX
PT Identifying drugs for and diagnosing benign prostatic hyperplasia, by
PT detecting expression levels of one or more genes in prostate cells from
PT patient that are differentially regulated compared to normal prostate
PT cells
XX
PS Disclosure; Page 265-266; 444pp; English.
XX
CC The invention relates to a method of diagnosing (I) the onset or
CC progression of benign prostatic hyperplasia (BPH), or screening (II) for
CC or identifying an agent that modulates the onset or progression of BPH.
CC The method is based on changes in gene expression in BPH tissue isolated
CC from patients exhibiting different clinical states of prostate
CC hyperplasia as compared to normal prostate tissue. (I) comprises
CC detecting the expression levels of one or more genes in prostate cells
CC from the subject that are differentially regulated compared to normal
CC prostate cells. (II) comprises preparing a first gene expression profile
CC of BPH cells or BPH-like cell population, exposing the cells to the
CC agent, preparing a second gene expression profile of the agent exposed

CC cells, and comparing the first and second gene expression profiles.
CC (I) is useful for diagnosing the onset or progression of BPH. (II) is
CC useful for identifying an agent that modulates the onset or progression
CC of BPH. The methods are useful to present information identifying
CC the expression level in a tissue or cells, by comparing the expression
CC level of genes given in the specification in the tissue or cells to the
CC level of expression of gene in the database, and displaying the
CC expression levels of at least one gene in the tissue or cell sample
CC compared to the expression level in BPH. Agents using (II) are useful for
CC treating BPH or prostate cancer. ABK64106-ABK64860 represent human
CC benign prostatic hyperplasia gene sequences of the invention.

XX SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
Db 2392 GCTCTGTTGATATGAAAGCAAGTG 2418

RESULT 14
ABL69670
ID ABL69670 standard; DNA; 2653 BP.

XX AC ABL69670;
XX DT 15-MAY-2002 (first entry)

XX DE Prostate cancer related gene sequence SEQ ID NO:8007.

KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytosstatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds

XX OS Homo sapiens.

XX PN WO200194629-A2.

XX PD 13-DEC-2001.

XX PF 30-MAY-2001; 2001WO-US10838.

XX PR 05-JUN-2000; 2000US-209473P.
XX PR 05-JUN-2000; 2000US-209531P.
XX PR 18-SEP-2000; 2000US-233133P.
XX PR 18-SEP-2000; 2000US-233617P.
XX PR 20-SEP-2000; 2000US-234009P.
XX PR 20-SEP-2000; 2000US-234034P.
XX PR 20-SEP-2000; 2000US-234052P.
XX PR 22-SEP-2000; 2000US-234509P.
XX PR 22-SEP-2000; 2000US-234567P.
XX PR 25-SEP-2000; 2000US-234923P.
XX PR 25-SEP-2000; 2000US-234924P.
XX PR 25-SEP-2000; 2000US-235077P.
XX PR 25-SEP-2000; 2000US-235082P.
XX PR 25-SEP-2000; 2000US-235134P.
XX PR 25-SEP-2000; 2000US-235280P.
XX PR 26-SEP-2000; 2000US-235637P.
XX PR 26-SEP-2000; 2000US-235638P.
XX PR 27-SEP-2000; 2000US-235711P.
XX PR 27-SEP-2000; 2000US-235720P.
XX PR 27-SEP-2000; 2000US-235840P.
XX PR 27-SEP-2000; 2000US-235863P.
XX PR 28-SEP-2000; 2000US-236028P.
XX PR 28-SEP-2000; 2000US-236032P.
XX PR 28-SEP-2000; 2000US-236033P.
XX PR 28-SEP-2000; 2000US-236034P.
XX PR 28-SEP-2000; 2000US-236109P.
XX PR 28-SEP-2000; 2000US-236111P.

PR 29-SEP-2000; 2000US-236842P.
PR 29-SEP-2000; 2000US-236891P.
PR 02-OCT-2000; 2000US-237172P.
PR 02-OCT-2000; 2000US-237173P.
PR 02-OCT-2000; 2000US-237278P.
PR 02-OCT-2000; 2000US-237294P.
PR 02-OCT-2000; 2000US-237295P.
PR 02-OCT-2000; 2000US-237316P.
PR 03-OCT-2000; 2000US-237425P.
PR 03-OCT-2000; 2000US-237598P.
PR 03-OCT-2000; 2000US-237604P.
PR 03-OCT-2000; 2000US-237606P.
PR 03-OCT-2000; 2000US-237608P.
PR 01-NOV-2000; 2000US-244867P.
PR 01-NOV-2000; 2000US-245084P.

XX PA (AVAL-) AVALON PHARM.

XX XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
XX PI Soppet DR, Weaver Z;
XX XX

XX DR WPI; 2002-188264/24.

XX PT Screening for anti-neoplastic agent involves exposing cells to a
XX PT chemical agent to be tested for anti-neoplastic activity, and
XX PT determining a change in expression of a gene of a signature gene set
XX PS Claim 1; SEQ ID 8007; 44pp; English.

XX CC The present invention describes a method (M1) for screening for an
XX CC anti-neoplastic agent. The method involves exposing cells to a chemical
XX CC agent to be tested for anti-neoplastic activity, determining a change in
XX CC expression of at least one gene (I) of a signature gene set, where (I)
XX CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
XX CC to ABL70110), or is at least 95% identical to (S), where a change in
XX CC expression is indicative of anti-neoplastic activity. (I) has cytosstatic
XX CC activity and can be used in gene therapy. M1 can be used for screening
XX CC an anti-neoplastic agent, and can be used for producing a product which
XX CC is the data collected with respect to the anti-neoplastic agent as a
XX CC result of M1, and the data is sufficient to convey the chemical
XX CC structure and/or properties of the agent. M1 can be used in the
XX CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
XX CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
XX CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
XX CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
XX CC carcinoma, papillary carcinoma and Wilm's tumour.

XX SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
Db 2392 GCTCTGTTGATATGAAAGCAAGTG 2418

RESULT 15

XX AAT36785
XX ID AAT36785 standard; cDNA; 2654 BP.

XX AC AAT36785;

XX DT 04-NOV-1996 (first entry)

XX DE Prostate-specific membrane antigen cDNA.

XX KW Prostate-specific membrane antigen; PSM; promoter; prostate cancer;
XX KW metastasis; gene therapy; diagnosis; ss.

XX OS Homo sapiens.

```
FH Key Location/Qualifiers
FT 5'UTR 1..261
FT /*tag= a
FT 262..2253
FT CDS /*tag= b
FT /product= PSM antigen
FT misc_feature 114..380
FT /*tag= c
FT /note= "bases 114-380 (-147 to +109) are absent
FT in PSM' CDNA"
FT polyA_signal 2352..2357
FT /*tag= d
XX WO9626272-A1.
XX
XX 29-AUG-1996.
XX
XX 23-FEB-1996; 96WO-US02424.
XX
XX 02-JUN-1995; 95US-0470735.
XX 24-FEB-1995; 95US-0394152.
XX 02-JUN-1995; 95US-0466381.
XX
XX (SLOK ) SLOAN KITTERING INST CANCER RES.
XX
XX Fair WR, Heston WDW, Israeli RS;
XX
XX WPI: 1996-402365/40.
XX P-PSDB; AAW02234.
XX
XX DNA encoding alternatively spliced prostate-specific membrane
XX antigen - useful to develop prods. for detecting haematogenous
XX micrometastatic tumour cells, or prostate cancer progression
XX
XX Example 1; Fig 47A-D; 284pp; English.
XX
XX A cDNA clone (AAT36785) codes for human 100 kDa prostate-specific
XX membrane (PSM) antigen (AAW02234), an integral membrane glycoprotein
XX that is very highly expressed in prostatic tumours and metastases.
XX It was obtd. from lymph node carcinoma of prostate (LNCaP) cell
XX mRNA by PCR amplification (see also AAT36795-808) and screening of an
XX LNCaP cDNA library using an amplified cDNA partial clone as probe.
XX The cDNA can be used to provide probes and primers useful e.g. in
XX detecting haematogenous micrometastatic tumour cells, and determining
XX prostate cancer progression (see also AAT36827-30 and AAT36813-18),
XX and in gene therapy. An alternatively spliced PSM, PSM', has a
XX shorter cDNA sequence. PSM genomic DNA is given in AAT36786.
XX
XX SQ Sequence 2654 BP; 782 A; 525 C; 639 G; 708 T; 0 other;
XX
XX Query Match 100.0%; Score 27; DB 17; Length 2654;
XX Best Local Similarity 100.0%; Pred. No. 0.066;
XX Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 GCTCTGTTGATATGAAAGCAAGTG 27
XX |||||||||||||||||||||||||||
XX
XX Db 2392 GCTCTGTTGATATGAAAGCAAGTG 2418
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Search completed: April 14, 2003, 13:13:00
Job time : 100 secs

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 10:10:25 ; Search time 21 Seconds
(without alignments)
394.299 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 gctctgttgcattgaaagcaagtg 27

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues 882724

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

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2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	27	100.0	2653	1	Sequence 1, Appli
2	27	100.0	2653	2	Sequence 1, Appli
3	25.4	94.1	2133	4	GENERAL INFORMA
4	18.2	67.4	1620	4	Sequence 124, App
5	18	66.7	3867	4	Sequence 81, Appl
6	18	66.7	9734	4	Sequence 80, Appl
7	17.4	64.4	612	2	Sequence 9, Appli
8	17.4	64.4	612	2	Sequence 13, Appl
9	17.4	64.4	612	4	Sequence 12, Appl
10	17.4	64.4	612	4	Sequence 20, Appl
11	17.4	64.4	1782	2	Sequence 6, Appli
12	17.4	64.4	1782	4	Sequence 6, Appli
13	17.4	64.4	1785	1	Sequence 1, Appli
14	17.4	64.4	1785	2	Sequence 10, Appl
15	17.4	64.4	1785	2	Sequence 14, Appl
16	17.4	64.4	1785	3	Sequence 1, Appli
17	17.4	64.4	1785	4	Sequence 14, Appl
18	17.4	64.4	1785	4	Sequence 14, Appl
19	17.4	64.4	1785	4	Sequence 22, Appl
20	17.4	64.4	2265	1	Sequence 1, Appli
21	17.4	64.4	2265	4	Sequence 1, Appli
22	17.2	63.7	6171	1	Sequence 1, Appli
23	17.2	63.7	6171	2	Sequence 1, Appli
24	17.2	63.7	6171	3	Sequence 1, Appli
25	17.2	63.7	6171	4	Sequence 1, Appli
26	17.2	63.7	6171	4	Sequence 1, Appli
27	17	63.0	1071	4	Sequence 4, Appli

28	17	63.0	3914	1	US-08-117-373-11	Sequence 11, Appl
29	17	63.0	13425	4	US-08-961-527-151	Sequence 151, App
30	16.8	62.2	656	4	US-08-896-164-62	Sequence 62, Appl
31	16.8	62.2	4975	2	US-08-249-687C-1	Sequence 1, Appli
32	16.8	62.2	4989	2	US-08-666-392A-3	Sequence 3, Appli
33	16.8	62.2	4989	2	US-08-625-819-1	Sequence 1, Appli
34	16.8	62.2	4989	3	US-08-755-558-4	Sequence 4, Appli
35	16.8	62.2	4989	3	US-08-746-559A-1	Sequence 1, Appli
36	16.8	62.2	4989	4	US-08-880-313A-9	Sequence 9, Appli
37	16.8	62.2	4989	4	US-09-199-926-3	Sequence 3, Appli
38	16.8	62.2	4989	4	US-08-864-641B-17	Sequence 17, Appl
39	16.8	62.2	4989	4	US-09-389-855A-9	Sequence 9, Appli
40	16.8	62.2	4989	4	US-09-668-822-9	Sequence 9, Appli
41	16.8	62.2	4993	3	US-08-746-559A-3	Sequence 3, Appli
42	16.6	61.5	878	4	US-09-222-575-82	Sequence 82, Appl
43	16.6	61.5	1617	2	US-08-946-528-2	Sequence 2, Appli
44	16.6	61.5	3552	4	US-09-157-210-3	Sequence 3, Appli
45	16.6	61.5	4739	3	US-08-685-871-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-325-553-1
Sequence 1, Application US/08325553
Patent No. 5538866
GENERAL INFORMATION:
APPLICANT: Israeli, Ron S.
APPLICANT: Heston, Warren D.W.
TITLE OF INVENTION: THE PROSTATE-SPECIFIC MEMBRANE ANTIGEN
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/325,553
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/973,337A
FILING DATE: 05 NOV 1992
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 1747/41426
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9550
TELEFAX: (212) 664-0525
TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2653 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Carcinoma
IMMEDIATE SOURCE:

CLONE: Prostate-Specific Membrane Antigen
FEATURE:
NAME/KEY: CDS
LOCATION: 262..2511
US-08-325-553-1

Query Match 100.0%; Score 27; DB 1; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27
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Db 2392 GCTCTGTTGATATGAAGCAAGTG 2418

RESULT 2

US-08-394-152A-1
Sequence 1, Application US/08394152A
Patent No. 5935818

GENERAL INFORMATION:

APPLICANT: Israeli, Ron S.
APPLICANT: Heston, Warren D.W.
APPLICANT: Fair, William R.
TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM 330 466 DX2
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/394,152A
FILING DATE: 24-FEB-95

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 41426-B

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 278-0400

TELEFAX: (212) 391-0525

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2653 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:

ORGANISM: Homo sapiens
TISSUE TYPE: Carcinoma

IMMEDIATE SOURCE:

CLONE: Prostate-Specific Membrane Antigen

FEATURE:

NAME/KEY: CDS

LOCATION: 262..2511

US-08-394-152A-1

Query Match 100.0%; Score 27; DB 2; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27

Db 2392 GCTCTGTTGATATGAAGCAAGTG 2418
|||||

RESULT 3

US-09-164-034B-1

GENERAL INFORMATION:

APPLICANT: Mincheff, Milcho S.
APPLICANT: Loukinov, I. Dmitri
APPLICANT: Zoubak, Serguei

TITLE OF INVENTION: Immunotherapy of Cancer Through Expression
of Truncated Tumor- or Tumor-Associated Antigen

NUMBER OF SEQUENCES: 1

CORRESPONDENCE ADDRESS:

ADDRESSEE: William S. Ramsey,
Ramsey, Cook, Looper & Kurlander, LLC
STREET: 10420 Little Patuxent Parkway, Suite 250
CITY: Columbia
STATE: Maryland
COUNTRY: USA
ZIP: 21044

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage

COMPUTER: PC

OPERATING SYSTEM: Windows 95

SOFTWARE: Wordperfect 8

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/164,034B
FILING DATE: 30-Sep-1998

ATTORNEY/AGENT INFORMATION:

NAME: Ramsey, William S.

REGISTRATION NUMBER: 32,715

REFERENCE/DOCKET NUMBER: br11

TELECOMMUNICATION INFORMATION:

TELEPHONE: (410) 992-9660

TELEFAX: (410) 992-9540

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-164-034B-1

Query Match 94.1%; Score 25.4; DB 4; Length 2133;
Best Local Similarity 96.3%; Pred. No. 0.021;
Matches 26; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27
|||||

Db 2005 GCCCTGTTGATATGAAGCAAGTG 2031

RESULT 4

US-08-936-165A-124/C

Sequence 124, Application US/08936165A

Patent No. 6348582

GENERAL INFORMATION:

APPLICANT: Black, Michael

APPLICANT: Burnham, Martin

APPLICANT: Hodgson, John

APPLICANT: Knowles, David

APPLICANT: Lonetto, Michael

APPLICANT: Nicholas, Richard

APPLICANT: Pratt, Julie

APPLICANT: Reichard, Richard

APPLICANT: Rosenberg, Martin

APPLICANT: Ward, Judith

TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,

TITLE OF INVENTION: Polypeptides and Their Uses

NUMBER OF SEQUENCES: 534

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road

CITY: King of Prussia

STATE: PA

COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,165A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/027,032
FILING DATE: 24-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmil, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50549
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 124:
SEQUENCE CHARACTERISTICS:
LENGTH: 1620 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-936-165A-124

Query Match 67.4%; Score 18.2; DB 4; Length 1620;
Best Local Similarity 87.0%; Pred. No. 28;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTCTGTTGATATGAAAGCAAA 24
|||||
DB 344 CTCTGTTGCTATGATAGCAAA 322

RESULT 5
US-09-347-114A-81
Sequence 81, Application US/09347114A
Patent No. 6297014
GENERAL INFORMATION:
APPLICANT: Kent D. Taylor (Inventor)
APPLICANT: Maren T. Scheuner (Inventor)
APPLICANT: Jerome I. Rotter (Inventor)
APPLICANT: Huiying Yang (Inventor)
TITLE OF INVENTION: Genetic Test to Determine
FILE REFERENCE: P07 41878
CURRENT APPLICATION NUMBER: US/09/347,114A
CURRENT FILING DATE: 1999-07-02
NUMBER OF SEQ ID NOS: 110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 81
LENGTH: 3867
TYPE: DNA
ORGANISM: Homo sapiens
US-09-347-114A-81

Query Match 66.7%; Score 18; DB 4; Length 3867;
Best Local Similarity 80.8%; Pred. No. 38;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCTGTTGATATGAAAGCAAGTG 27
|||||
DB 462 CTCTATTGATATTGAGAAAAAATG 487

RESULT 6
US-09-347-114A-80
Sequence 80, Application US/09347114A
Patent No. 6297014

GENERAL INFORMATION:
APPLICANT: Kent D. Taylor (Inventor)
APPLICANT: Maren T. Scheuner (Inventor)
APPLICANT: Jerome I. Rotter (Inventor)
APPLICANT: Huiying Yang (Inventor)
TITLE OF INVENTION: Genetic Test to Determine
FILE REFERENCE: P07 41878
CURRENT APPLICATION NUMBER: US/09/347,114A
CURRENT FILING DATE: 1999-07-02
NUMBER OF SEQ ID NOS: 110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 80
LENGTH: 9734
TYPE: DNA
ORGANISM: Homo sapiens
US-09-347-114A-80

Query Match 66.7%; Score 18; DB 4; Length 9734;
Best Local Similarity 80.8%; Pred. No. 44;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCTGTTGATATGAAAGCAAGTG 27
|||||
DB 6350 CTCTATTGATATTGAGAAAAAATG 6375

RESULT 7
US-08-308-952-9
Sequence 9, Application US/08308952
Patent No. 5837812
GENERAL INFORMATION:
APPLICANT: Harrison, Leonard
APPLICANT: Honeyman, Margot
APPLICANT: Cram, David
APPLICANT: Dealzpurua, Henry
TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT
TITLE OF INVENTION: OF GLUTAMIC ACID DECARBOXYLASE AUTOANTIGEN
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scully, Scott, Murphy & Presser
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: U.S.A.
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/308,952
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 839,805
FILING DATE: 21-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S.
REGISTRATION NUMBER: 31,346
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 612 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA

Db 216 GTCTGCTGATGTGGAAGCAAGG 242

RESULT 11

US-08-308-952-6

: Sequence 6, Application US/08308952

: Patent No. 5837812

: GENERAL INFORMATION:

: APPLICANT: Harrison, Leonard

: APPLICANT: Honeyman, Margot

: APPLICANT: Cram, David

: APPLICANT: Deaizpura, Henry

: TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT

: OF GLUTAMIC ACID DECARBOXYLASE AUTOANTIGEN

: TITLE OF INVENTION: ASSOCIATED DISEASES

: NUMBER OF SEQUENCES: 25

: CORRESPONDENCE ADDRESSES:

: ADDRESSEE: Scully, Scott, Murphy & Presser

: STREET: 400 Garden City Plaza

: CITY: Garden City

: STATE: New York

: COUNTRY: U.S.A.

: ZIP: 11530

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: Patentln Release #1.0, Version #1.25

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/08/308,952

: FILING DATE:

: CLASSIFICATION: 435

: PRIOR APPLICATION DATA:

: APPLICATION NUMBER: 839,805

: FILING DATE: 21-FEB-1992

: ATTORNEY/AGENT INFORMATION:

: NAME: Digiglio, Frank S.

: REGISTRATION NUMBER: 31,346

: TELECOMMUNICATION INFORMATION:

: TELEPHONE: (516) 742-4343

: TELEFAX: (516) 742-4366

: TELEEX: 230 901 SANS UR

: INFORMATION FOR SEQ ID NO: 6:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 1782 base pairs

: TYPE: nucleic acid

: STRANDEDNESS: single

: TOPOLOGY: linear

: MOLECULE TYPE: cDNA to mRNA

: US-08-308-952-6

Query Match 64.4%; Score 17.4; DB 2; Length 1782;

Best Local Similarity 77.8%; Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGGAAGCAAGTG 27

Db 1386 GTCTGCTGATGTGGAAGCAAGG 1412

RESULT 12

US-09-124-141-6

: Sequence 6, Application US/09124141

: Patent No. 6211352

: GENERAL INFORMATION:

: APPLICANT: Harrison, Leonard

: APPLICANT: Honeyman, Margot

: APPLICANT: Cram, David

: APPLICANT: Deaizpura, Henry

: TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT OF GLUTAMIC

: ACID DECARBOXYLASE AUTOANTIGEN ASSOCIATED DISEASES

: FILE REFERENCE: Phillips, Ormonde & Fitzpatrick

: CURRENT APPLICATION NUMBER: US/09/124,141

: CURRENT FILING DATE: 1998-07-29

: EARLIER APPLICATION NUMBER: 08/308,952

: EARLIER FILING DATE: 1994-09-20

: EARLIER APPLICATION NUMBER: 07/839,805

: EARLIER FILING DATE: 1992-02-21

: NUMBER OF SEQ ID NOS: 34

: SOFTWARE: Patentln Ver. 2.1

: SEQ ID NO 6

: LENGTH: 1782

: TYPE: DNA

: ORGANISM: Unknown Organism

: FEATURE:

: OTHER INFORMATION: Description of Unknown Organism: Full Length Mouse

: OTHER INFORMATION: Brain GAD

: FEATURE:

: NAME/KEY: CDS

: LOCATION: (1)..(1779)

: US-09-124-141-6

Query Match 64.4%; Score 17.4; DB 4; Length 1782;

Best Local Similarity 77.8%; Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1386 GTCTGCTGATGTGGAAGCAAGG 1412

RESULT 13

US-08-592-696-1

: Sequence 1, Application US/08592696

: Patent No. 5821334

: GENERAL INFORMATION:

: APPLICANT: Powers, Alvin C

: TITLE OF INVENTION: "INSULIN-DEPENDENT DIABETES

: TITLE OF INVENTION: MELLITUS-SPECIFIC CHIMERIC POLYPEPTIDES"

: NUMBER OF SEQUENCES: 6

: CORRESPONDENCE ADDRESSES:

: ADDRESSEE: Needle & Rosenberg, P.C.

: STREET: 127 Peachtree Street, Suite 1200

: CITY: Atlanta

: STATE: Georgia

: COUNTRY: USA

: ZIP: 30303

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: Patentln Release #1.0, Version #1.30

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/08/592,696

: FILING DATE:

: CLASSIFICATION: 435

: ATTORNEY/AGENT INFORMATION:

: NAME: Selby Esq., Elizabeth

: REGISTRATION NUMBER: 38,298

: REFERENCE/DOCKET NUMBER: 22000.0043

: TELECOMMUNICATION INFORMATION:

: TELEPHONE: 404-688-0770

: TELEFAX: 404-688-9880

: INFORMATION FOR SEQ ID NO: 1:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 1785 base pairs

: TYPE: nucleic acid

: STRANDEDNESS: double

: TOPOLOGY: linear

: MOLECULE TYPE: other nucleic acid

: US-08-592-696-1

Query Match 64.4%; Score 17.4; DB 1; Length 1785;

Best Local Similarity 77.8%; Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 13:13:08 ; Search time 33.6667 Seconds
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Title: US-09-821-734-17

Perfect score: 27
Sequence: 1 gctctgttgatattgaaagcaagt 27

Scoring table: IDENTITY_NUC
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Searched: 593429 seqs, 438583890 residues

Total number of hits satisfying chosen parameters: 1186858

Minimum DB seq length: 0
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Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*

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- 14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	100.0	27	9	US-09-821-734-17
2	27	100.0	1037	10	US-09-925-300-86
3	27	100.0	2558	9	US-09-978-295A-617
4	27	100.0	2558	9	US-09-978-697-617
5	27	100.0	2558	9	US-09-978-192A-617
6	27	100.0	2558	9	US-09-999-832A-617
7	27	100.0	2558	9	US-09-978-189-617
8	27	100.0	2558	9	US-10-174-590-103
9	27	100.0	2558	9	US-10-176-758-103
10	27	100.0	2558	9	US-10-175-737-103
11	27	100.0	2558	9	US-10-173-706-103
12	27	100.0	2558	9	US-10-175-738-103
13	27	100.0	2558	9	US-10-176-482-103
14	27	100.0	2558	9	US-10-176-757-103
15	27	100.0	2558	9	US-10-176-913-103
16	27	100.0	2558	9	US-10-180-552-103
17	27	100.0	2558	9	US-10-180-557-103
18	27	100.0	2558	9	US-10-173-700-103
19	27	100.0	2558	9	US-10-173-700-103

20	27	100.0	2558	9	US-10-174-572-103	Sequence 103, App
21	27	100.0	2558	9	US-10-174-579-103	Sequence 103, App
22	27	100.0	2558	9	US-10-174-582-103	Sequence 103, App
23	27	100.0	2558	9	US-10-174-588-103	Sequence 103, App
24	27	100.0	2558	9	US-10-175-739-103	Sequence 103, App
25	27	100.0	2558	9	US-10-175-740-103	Sequence 103, App
26	27	100.0	2558	9	US-10-175-743-103	Sequence 103, App
27	27	100.0	2558	9	US-10-176-488-103	Sequence 103, App
28	27	100.0	2558	9	US-10-176-492-103	Sequence 103, App
29	27	100.0	2558	9	US-10-176-747-103	Sequence 103, App
30	27	100.0	2558	9	US-10-176-750-103	Sequence 103, App
31	27	100.0	2558	9	US-10-176-985-103	Sequence 103, App
32	27	100.0	2558	9	US-10-176-987-103	Sequence 103, App
33	27	100.0	2558	9	US-10-176-991-103	Sequence 103, App
34	27	100.0	2558	9	US-10-176-992-103	Sequence 103, App
35	27	100.0	2558	9	US-10-176-993-103	Sequence 103, App
36	27	100.0	2558	9	US-10-184-658-103	Sequence 103, App
37	27	100.0	2558	9	US-10-173-695-103	Sequence 103, App
38	27	100.0	2558	9	US-10-173-697-103	Sequence 103, App
39	27	100.0	2558	9	US-10-173-705-103	Sequence 103, App
40	27	100.0	2558	9	US-10-174-576-103	Sequence 103, App
41	27	100.0	2558	9	US-10-174-585-103	Sequence 103, App
42	27	100.0	2558	9	US-10-174-586-103	Sequence 103, App
43	27	100.0	2558	9	US-10-175-747-103	Sequence 103, App
44	27	100.0	2558	9	US-10-176-481-103	Sequence 103, App
45	27	100.0	2558	9	US-10-176-485-103	Sequence 103, App

ALIGNMENTS

RESULT 1
US-09-821-734-17
Sequence 17, Application US/09821734
Publication No. US20030027246A1
GENERAL INFORMATION:
APPLICANT: Chong, Pele
APPLICANT: Pedyczak, Artur
TITLE OF INVENTION: SIA, Charles Dwo Yuan
TITLE OF INVENTION: Immunogenic Peptides Derived from Prostate-Specific Membrane
FILE REFERENCE: 11014-22
CURRENT APPLICATION NUMBER: US/09/821,734
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: US 60/193,386
PRIOR FILING DATE: 2000-03-31
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.0
SEQ ID NO 17
LENGTH: 27
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CLP337,
US-09-821-734-17

Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 27;
Matches 27; Conservativeness 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
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Db 1 GCTCTGTTGATATTGAAAGCAAGTG 27

RESULT 2
US-09-925-300-86
Sequence 86, Application US/09925300
Patent No. US20020151681A1
GENERAL INFORMATION:
APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA101
CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 86
LENGTH: 1037
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-300-86

Query Match 100.0%; Score 27; DB 10; Length 1037;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTTTGATATTGAAAGCAAGTG 27
|||||
Db 780 GCCTCTTTGATATTGAAAGCAAGTG 806

RESULT 3
US-09-978-295A-617
Sequence 617, Application US/09978295A
Patent No. US20020156006A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC11
CURRENT APPLICATION NUMBER: US/09/978,295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10

PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
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PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-09
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PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
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;; PRIOR APPLICATION NUMBER: 60/085704
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Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2314 GCCTGTTGATATATGAAGCAAGTG 2340

RESULT 4
US-09-978-697-617
; Sequence 617, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC27
; CURRENT APPLICATION NUMBER: US/09/978, 697
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAGCAAGTG 27
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Db 2314 GCTCTGTTGATATGAAGCAAGTG 2340

RESULT 5

US-09-978-192A-617
; Sequence 617, Application US/09978192A
; Patent No. US20020177553A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C9
; CURRENT APPLICATION NUMBER: US/09/978,192A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. NO. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
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DB 2314 GCTCTGTTGATATTGAAGCAAGTG 2340
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US-09-999-832A-617
Sequence 617, Application US/09999832A
Publication No. US20020192706A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
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APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C63
CURRENT FILING DATE: 2001-10-24
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Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGCAAGCAAGTG 27
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Db 2314 GCTCTGTTGATATGCAAGCAAGTG 2340

RESULT 7
US-09-978-189-617
; Sequence 617, Application US/09978189
; Publication No. US20030004102A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
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APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2630PlC7
CURRENT APPLICATION NUMBER: us/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545

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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083500
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-5-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
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Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 GCTCTGTTGATATTGAAGCAAGTG 27
Db      2314 GCTCTGTTGATATTGAAGCAAGTG 2340
```

RESULT 8
US-10-174-590-103

```
; Sequence 103, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
```

```
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC42
; CURRENT APPLICATION NUMBER: US/10/174,590
; PRIOR FILING DATE: 2002-06-18
; PRIOR application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-174-590-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 GCTCTGTTGATATTGAAGCAAGTG 27
Db      2314 GCTCTGTTGATATTGAAGCAAGTG 2340
```

RESULT 9
US-10-176-758-103

```
; Sequence 103, Application US/10176758
; Publication No. US20030008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC104
; CURRENT APPLICATION NUMBER: US/10/176,758
; PRIOR FILING DATE: 2002-06-21
; PRIOR application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-176-758-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 GCTCTGTTGATATTGAAGCAAGTG 27
Db      2314 GCTCTGTTGATATTGAAGCAAGTG 2340
```

RESULT 10
US-10-175-737-103

```
; Sequence 103, Application US/10175737
; Publication No. US20030013153A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
```



```
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430RIC50
CURRENT APPLICATION NUMBER: US/10/175,737
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-737-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340
```

```
RESULT 11
US-10-173-706-103
; Sequence 103, Application US/10173706
; Publication No. US20030022293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430RIC7
CURRENT APPLICATION NUMBER: US/10/173,706
CURRENT FILING DATE: 2002-06-17
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-173-706-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340
```

```
RESULT 12
US-10-175-738-103
; Sequence 103, Application US/10175738
; Publication No. US20030022294A1
; GENERAL INFORMATION:
```

```
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430RIC45
CURRENT APPLICATION NUMBER: US/10/175,738
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-738-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340
```

```
RESULT 13
US-10-175-752-103
; Sequence 103, Application US/10175752
; Publication No. US20030022295A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430RIC60
CURRENT APPLICATION NUMBER: US/10/175,752
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-752-103
```

```
Query Match      100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAAGCAAGTG 2340
```

```
RESULT 14
US-10-176-482-103
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Search completed: April 14, 2003, 15:59:23
Job time.: 34.6667 secs

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; Sequence 103, Application US/10176482
; Publication No. US20030022296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC70
; CURRENT APPLICATION NUMBER: US/10/176,482
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-176-482-103
```

```
Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAGCAAGTG 2340
```

```
RESULT 15
US-10-176-757-103
; Sequence 103, Application US/10176757
; Publication No. US20030022297A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430RIC86
; CURRENT APPLICATION NUMBER: US/10/176,757
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-176-757-103
```

```
Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTGATATTGAAGCAAGTG 2340
```

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:33:49 ; Search time 828.5 Seconds
(without alignments)
527.795 Million cell updates/sec

Title: US-09-821-734-17
Perfect score: 27
Sequence: 1 gctctgttgatattgaaagcaagtg 27

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16151066 seqs, 8097743376 residues
Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST: *
1: em_estba: *
2: em_esthum: *
3: em_estin: *
4: em_estmu: *
5: em_estov: *
6: em_estpl: *
7: em_estro: *
8: em_hic: *
9: gb_est1: *
10: gb_est2: *
11: gb_hic: *
12: gb_est3: *
13: gb_est4: *
14: gb_est5: *
15: em_estfun: *
16: em_estom: *
17: gb_gss: *
18: em_gss_hum: *
19: em_gss_inv: *
20: em_gss_pln: *
21: em_gss_vrt: *
22: em_gss_fun: *
23: em_gss_mam: *
24: em_gss_mus: *
25: em_gss_other: *
26: em_gss_pro: *
27: em_gss_trod: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	27	100.0	243	9	AI478207	AI478207 tm50d04.x
2	27	100.0	300	9	AI648702	AI648702 tx65h01.x
3	27	100.0	305	12	BG203378	BG203378 RST22759
4	27	100.0	321	12	BG221564	BG221564 RST41377
5	27	100.0	350	9	AI424589	AI424589 tg32e09.x
6	27	100.0	352	12	BF673465	BF673465 602136247

C	7	27	100.0	390	9	AA435800	AA435800 zt78a10.s
C	8	27	100.0	395	9	AA631303	AA631303 ng90g07.s
C	9	27	100.0	420	9	AA879028	AA879028 nw87e05.s
C	10	27	100.0	426	10	AW000926	AW000926 wr90e01.x
C	11	27	100.0	432	10	AW168915	AW168915 xj15b10.x
C	12	27	100.0	442	14	N48056	N48056 yy99c12.s1
C	13	27	100.0	452	14	N64840	N64840 yz31h07.s1
C	14	27	100.0	458	9	AI768508	AI768508 wh22g03.x
C	15	27	100.0	462	9	AA897668	AA897668 oj78c06.s
C	16	27	100.0	471	9	AI356718	AI356718 qy17a12.x
C	17	27	100.0	474	9	AI474492	AI474492 th21d01.x
C	18	27	100.0	478	10	AW207840	AW207840 ui-h-B12-
C	19	27	100.0	494	9	AI690667	AI690667 tx15c10.x
C	20	27	100.0	545	14	BQ027857	BQ027857 ui-h-C00-
C	21	27	100.0	548	12	BF438644	BF438644 nab89b03.
C	22	27	100.0	618	9	AI766427	AI766427 wh49h09.x
C	23	27	100.0	659	13	BM537110	BM537110 ha78c03.g
C	24	27	100.0	690	9	AI672408	AI672408 ty64g12.x
C	25	27	100.0	720	12	BF940223	BF940223 nac70c04.
C	26	27	100.0	770	9	AI050871	AI050871 oy47b11.x
C	27	27	100.0	783	13	BI759533	BI759533 603046928
C	28	27	100.0	1019	9	AL532691	AL532691 AL532691
C	29	26	96.3	296	14	N52932	N52932 yz21b07.s1
C	30	25.4	94.1	507	12	BG187881	BG187881 RST6884.A
C	31	25.4	94.1	745	13	BI183520	BI183520 UNL-P-FN-
C	32	25.4	94.1	776	12	BG208080	BG208080 RST27570
C	33	23.8	88.1	133	12	BE845816	BE845816 232760.BA
C	34	23.8	88.1	514	9	AI094658	AI094658 oy61e12.s
C	35	22.2	82.2	421	10	AW484493	AW484493 61072.MAR
C	36	21.8	80.7	218	10	AW091367	AW091367 614094C04
C	37	21.8	80.7	352	10	AW120416	AW120416 614100A11
C	38	21.8	80.7	353	14	BQ487160	BQ487160 1091051F0
C	39	21.8	80.7	393	9	AI612422	AI612422 486081H01
C	40	21.8	80.7	399	14	BQ487245	BQ487245 1091052C1
C	41	21.8	80.7	468	10	BE051781	BE051781 za88b01.9
C	42	21.8	80.7	621	10	AW225047	AW225047 687023D04
C	43	21.8	80.7	807	12	BG319736	BG319736 zm03_05g1
C	44	21.8	80.7	1065	11	AY110560	AY110560 Zea mays
C	45	21	77.8	928	9	AL563970	AL563970 AL563970

ALIGNMENTS

RESULT 1
AI478207/c 243 bp mRNA linear EST 09-MAR-1999
LOCUS tm50d04.x1 NCI-CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161543 3'
DEFINITION similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN)
) ; contains Alu repetitive element; , mRNA sequence.

ACCESSION AI478207
VERSION AI478207.1 GI:4371433
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Homiidae; Homo.
TITLE 1 (bases 1 to 243)
JOURNAL NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
COMMENT National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index.
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/UNL at:
www-bio.lnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco.

FEATURES
sourceBASE COUNT
ORIGIN

Location/Qualifiers
1. 243
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2161543"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP_Kid3 was prepared, and ss circles were made in vitro. Following HAP hybridization reaction, this DNA was used as tracer in a subtractive from a pool of 5,000 clones made from the same library (cloneids 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 243;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 239 GCTCTGTTGATATTGAAAGCAAGTG 213

RESULT 2
AI648702/c
LOCUS 300 bp mRNA linear EST 16-DEC-1999
DEFINITION tx65h01.x1 NCI-CGAP_Ut1 Homo sapiens CDNA clone IMAGE:2274481 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);
AI648702
mRNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

AI648702.1 GI:4729536
EST.
human.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Human
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cga@bcr-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cdna Library Preparation: Life Technologies, Inc.
cdna Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 964 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 73.
Location/Qualifiers
1. 300
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2274481"
/clone_lib="NCI-CGAP_Ut1"
/tissue_type="well-differentiated endometrial
adenocarcinoma, 7 pooled tumors"
/lab_host="DH10B"
/note="Organ: uterus; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.75 kb. Life Technologies catalog #:
11538-014"

FEATURES
source

BASE COUNT
ORIGIN
85 a 72 c 43 g 100 t

Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 300;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 248 GCTCTGTTGATATTGAAAGCAAGTG 222

RESULT 3
BG203378/c
LOCUS 305 bp mRNA linear EST 21-APR-2001
DEFINITION RST22759 Athersys RAGE Library Homo sapiens CDNA, mRNA sequence.
ACCESSION BG203378
VERSION BG203378.1 GI:13725065
KEYWORDS
SOURCE
ORGANISM

human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 305)
Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,
Cain, S., Leventhal, C., Thornton, M., Ramchandran, R., Whittington, J.,
Lerner, L., Costanzo, D., McElligott, K., Booser, S., Mays, R., Smith,
'E., Veloso, N., Klika, A., Hess, J., Cothren, K., Lo, K., Offenbacher
, J., Danzig, J. and Ducar, M.
Creation of genome-wide protein expression libraries using random
activation of gene expression
Nat. Biotechnol. 19 (5), 440-445 (2001)
21227151
Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216.431.9900
Fax: 216.361.9596
Email: scain@athersys.com
High quality sequence stop: 305.
Location/Qualifiers
1. 305
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="Athersys RAGE Library"
/note="See 'Creation of Genome-wide Protein Expression
Libraries using Random Activation of Gene Expression',
Nature Biotechnology, in press. Note that even though the
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

BASE COUNT
ORIGIN
87 a 78 c 48 g 91 t

Query Match
Best Local Similarity 100.0%; Score 27; DB 12; Length 305;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAAGCAAGTG 27
Db 239 GCTCTGTTGATATTGAAAGCAAGTG 213

RESULT 4
BG221564
LOCUS 321 bp mRNA linear EST 21-APR-2001
DEFINITION RST41377 Athersys RAGE Library Homo sapiens CDNA, mRNA sequence.
ACCESSION BG221564
VERSION BG221564.1 GI:13747585
KEYWORDS
SOURCE
ORGANISM

human.
Homo sapiens

REFERENCE 1 (bases 1 to 321)
AUTHORS Harrington,J.J., Sherf,B., Rundlett,S., Jackson,P.D., Perry,R., Cain,S., Leventhal,C., Thornton,M., Ramachandran,R., Whittington,J., Lerner,L., Costanzo,D., McElligott,K., Booser,S., Mays,R., Smith,E., Veloso,N., Klika,A., Hess,J., Cothren,K., Lo,K., Offenbacher,J., Danzig,J. and Ducar,M.
TITLE Creation of genome-wide protein expression libraries using random activation of gene expression
JOURNAL Nat. Biotechnol. 19 (5), 440-445 (2001)
MEDLINE 21227151
COMMENT Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 215 431.9900
Fax: 215 361.9596
Email: scain@atersys.com
High quality sequence stop: 321.

FEATURES
source 1..321
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="Athersys RAGE Library"
/cell_line="HT1080"
/note="See 'Creation of Genome-wide Protein Expression Libraries using Random Activation of Gene Expression', Nature Biotechnology', in press. Note that even though the cell type indicated is HT1080, since a random activation method was used, these sequence tags are not necessarily expressed in HT1080 under normal circumstances."

BASE COUNT 109 a 47 c 72 g 93 t
ORIGIN

Query Match 100.0%; Score 27; DB 12; Length 321;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 68 GCTCTGTTGATATGAAAGCAAGTG 94

RESULT 5
AI424589/c 350 bp mRNA linear EST 09-MAR-1999
LOCUS tg32p09.x1 NCI_CGAP_Pr28 Homo sapiens CDNA clone IMAGE:2110504.3
DEFINITION similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.
ACCESSION AI424589
VERSION AI424589
KEYWORDS AI424589.1 GI:4270520
SOURCE EST.
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 350)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Emert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -400p from Gibco
High quality sequence stop: 243.

FEATURES
source Location/Qualifiers
1..350
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="IMAGE:2110504"
/clone_lib="NCI_CGAP_Pr28"
/sex="male"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Plasmid DNA from the normalized library NCI_CGAP_Pr22 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonoids 985608-986759, 1101192-1101959, and 1217928-1220615). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 105 a 82 c 52 g 111 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 350;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 248 GCTCTGTTGATATGAAAGCAAGTG 222

RESULT 6
BF673465
LOCUS 602136247F1 NIH_MGC_83 Homo sapiens CDNA clone IMAGE:4272947 5'
DEFINITION mRNA sequence.
ACCESSION BF673465
VERSION BF673465
KEYWORDS BF673465.1 GI:11947360
SOURCE EST.
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 352)
AUTHORS NIH-MGC http://mgc.ncbi.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc.
CDNA Library Preparation: CLONETECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Plate: LLCM1087 row: m column: 12
High quality sequence stop: 349.

FEATURES
source 1..352
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="IMAGE:4272947"
/clone_lib="NIH_MGC_83"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: prostate; Vector: pDNR-LIB (Clontech); Site_1: Sfil (ggcgcgtcgcc); Site_2: Sfil (ggcattatggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGAGCGCCGACATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.4 kb (range 0.5-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech

BASE COUNT 134 a Laboratories (Palo Alto, CA).
ORIGIN 51 c 79 g 88 t

Query Match
Best Local Similarity 100.0%; Score 27; DB 12; Length 352;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 79 GCTCTGTTGATATGGAAGCAAGTG 105
|||||
|||||

RESULT 7
AA435800/c
LOCUS
DEFINITION 390 bp mRNA linear EST 09-NOV-1997
278a10.s1 Soares_testis_NHT Homo sapiens CDNA clone IMAGE:728442
3' similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN); contains Alu repetitive element; mRNA sequence.

ACCESSION AA435800
VERSION AA435800.1 GI:2140714
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS 1 (bases 1 to 390)
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.
Washu-NCI human EST Project
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu

FEATURES
source
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 1837 Std Error: 0.00
Seq primer: -41m13 fwd. ET from Amersham
High quality sequence stop: 359.
Location/Qualifiers
1. 390
/organism="Homo sapiens"
/db_xref="GDB:5925355"
/db_xref="taxon:9606"
/clone_lib="IMAGE:728442"
/clone_lib="Soares_testis_NHT"
/sex="male"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer (5' TGTACCAATCTGAAGTGGAGCGGCCGCCCAATTTTCTTTTCTTTT 3' (Pharmacia), digested with Not I and Eco RI adaptors and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cols, and was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 118 a 89 c 63 g 120 t

Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 390;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 237 GCTCTGTTGATATGGAAGCAAGTG 211
|||||
|||||

RESULT 8
AA631303/c
LOCUS
DEFINITION 395 bp mRNA linear EST 31-OCT-1997
ng90g07.s1 NCI-CGAP_C09 Homo sapiens CDNA clone IMAGE:1159644 3' similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN); mRNA sequence.

ACCESSION AA631303
VERSION AA631303.1 GI:2553914
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS 1 (bases 1 to 395)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
Tumor Gene Index
Unpublished (1997).
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Ilan Kirsch, M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
www-bio.lnl.gov/db/rp/image/image.html
Insert Length: 2523 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 395.
Location/Qualifiers
1. 395
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="IMAGE:1159644"
/clone_lib="NCI-CGAP_C09"
/tissue_type="Colon tumor RER+"
/lab_host="DH10B"
/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from RER+ colon tumor, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and Eco RI into the Not I and Eco RI sites of the modified pT7T3 vector. Library is not normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo (Soares4).

FEATURES
source
High quality sequence stop: 395.
Location/Qualifiers
1. 395

BASE COUNT 116 a 89 c 61 g 129 t

Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 395;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 247 GCTCTGTTGATATGGAAGCAAGTG 221
|||||
|||||

RESULT 9
AA879028/c
LOCUS
DEFINITION 420 bp mRNA linear EST 25-MAR-1998
nw87e05.s1 NCI-CGAP_P12 Homo sapiens CDNA clone IMAGE:1253600 similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN); mRNA sequence.

ACCESSION AA879028
VERSION AA879028.1 GI:2987993
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 420)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: W. Douglas Figg, Ph.D., Paul H. Duray, M.D.,
Rodrigo R. Chuqui, M.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 84.
Location/Qualifiers
1..420
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1253600"
/clone_lib="NCI_CGAP_Pr12"
/sex="male"
/tissue_type="metastatic prostate bone lesion"
/lab_host="DH10B"
/note="Vector: PAMP10; mRNA made from metastatic prostate
lesion of the bone, CDNA made by oligo-dT priming.
Non-directionally cloned. Size-selected on agarose gel,
average insert size 600 bp. Library made by D. Krizman,
NIH."

BASE COUNT 112 a 99 c 79 g 130 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 420;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
Db 82 GCTCTGTTGATATTGAAGCAAGTG 56

RESULT 10
AW000926/c 426 bp mRNA linear EST 08-MAR-2000
LOCUS
DEFINITION
w90e01.x1 NCI_CGAP_Kid11 Homo sapiens CDNA clone IMAGE:2494968 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.
ACCESSION
AW000926
VERSION
AW000926.1 GI:5847842
KEYWORDS
EST.
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 426)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

JOURNAL
COMMENT

FEATURES
Source

Insert Length: 523 Std Error: 0.00
Seq primer: -40UP from Gibco.
Location/Qualifiers
1..426
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2494968"
/clone_lib="NCI_CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP_Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneIDs 1322376-1323911, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 126 a 98 c 64 g 138 t
ORIGIN

Query Match 100.0%; Score 27; DB 10; Length 426;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAGCAAGTG 27
|||||
Db 248 GCTCTGTTGATATTGAAGCAAGTG 222

RESULT 11
AW168915/c 432 bp mRNA linear EST 12-NOV-1999
LOCUS
DEFINITION
xj15b10.x1 NCI_CGAP_Ut2 Homo sapiens CDNA clone IMAGE:2657275 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.
ACCESSION
AW168915
VERSION
AW168915.1 GI:6400440
KEYWORDS
EST.
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 432)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco
High quality sequence stop: 417.
Location/Qualifiers
1..432
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2657275"
/clone_lib="NCI_CGAP_Ut2"
/tissue_type="moderately-differentiated endometrial
adenocarcinoma, 3 pooled tumors"
/lab_host="DH10B"
/note="Organ: uterus; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.85 kb. Life Technologies catalog #:

FEATURES
source

Db 241 GCTCTGTTGATATGAAAGCAAGTG 215

RESULT 14
AI768508/c 458 bp mRNA linear EST 20-DEC-1999
LOCUS wh22g03..:1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2381524 3'
DEFINITION similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.

ACCESSION AI768508
VERSION AI768508
KEYWORDS AI768508.1 GI:5235017
SOURCE EST.
ORGANISM human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 458)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 573 Std Error: 0.00
Seq primer: -40UP from Gibco.

FEATURES
Source Location/Qualifiers
1. 458
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2381524"
/clone_lib="NCI_CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP_Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(clones 1322376-1323911, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 134 a 99 c 74 g 151 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 458;
Best Local Similarity 100.0%; Pred. NO. 0.61;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 243 GCTCTGTTGATATGAAAGCAAGTG 217

RESULT 15
AA897668/c 462 bp mRNA linear EST 07-APR-1998
LOCUS oJ78cJ6.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
DEFINITION IMAGE:1504426 3' similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE
ANTIGEN (HUMAN);, mRNA sequence.

ACCESSION AA897668
VERSION AA897668.1 GI:3034282
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 462)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (infoimage.llnl.gov) for further information.
Trace considered overall poor quality
Seq primer: -40m13 fwd. Ef from Amersham
High quality sequence stop: 1.

FEATURES
Source Location/Qualifiers
1. 462
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1504426"
/clone_lib="Soares_NFL_T_GBC_S1"
/lab_host="DH10B"
/note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NbHL19W, testis NHT, and B-cell
NCI-CGAP_GCB1) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo."

BASE COUNT 135 a 111 c 80 g 136 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 462;
Best Local Similarity 100.0%; Pred. NO. 0.61;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
Db 229 GCTCTGTTGATATGAAAGCAAGTG 203

Search completed: April 14, 2003, 15:28:56
Job time : 830.5 secs

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